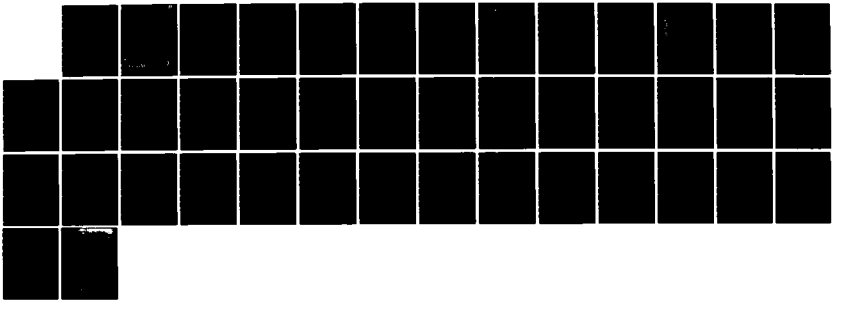
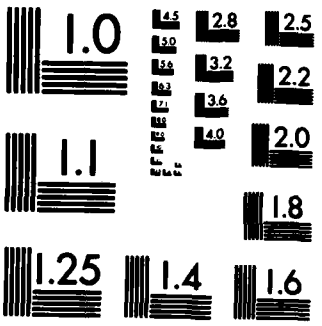
AD-A146 547 19316B MLRS MISSILE NUMBER Y6171 Y6172 ROUND NUMBER Y633/AT2-84 Y634/AT2-.. (U) ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WSMR NM ATM.. D C KELLER 1/1

UNCLASSIFIED JUL 84 DR-1353 F/G 4/2 NL





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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR-1353	2. GOVT ACCESSION NO. AD-A146547	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 19316B MLRS Missile Number V6171, V6172 Round Number V633/AT2-84, V634/AT2-85		5. TYPE OF REPORT & PERIOD COVERED 6. PERFORMING ORG. REPORT NUMBER
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18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Meteorological data gathered for the launching of the 19316B MLRS, Missile Number V6171, V6172, Round Number V633/AT2-84 and V634/AT2-85 are presented in tabular form.

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

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CONTENTS

INTRODUCTION

19316B MLRS, Missile Numbers V6171 and V6172, Round Numbers V633/AT2-84 and V634/AT2-85 **were launched from Brillo, White Sands Missile** Range (WSMR), New Mexico, at 1443:34 and 1513:08 MDT 30 Jul 80. The scheduled launch times were 1415 and 1445 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico.

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m^3), wind direction and speed, and cloud cover were made at the NW-30 Met Site at T-0 Minutes.

(2) Anemometer data were provided from existing tower-mounted anemometers at Brillo. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from Pilot-balloon observations at:

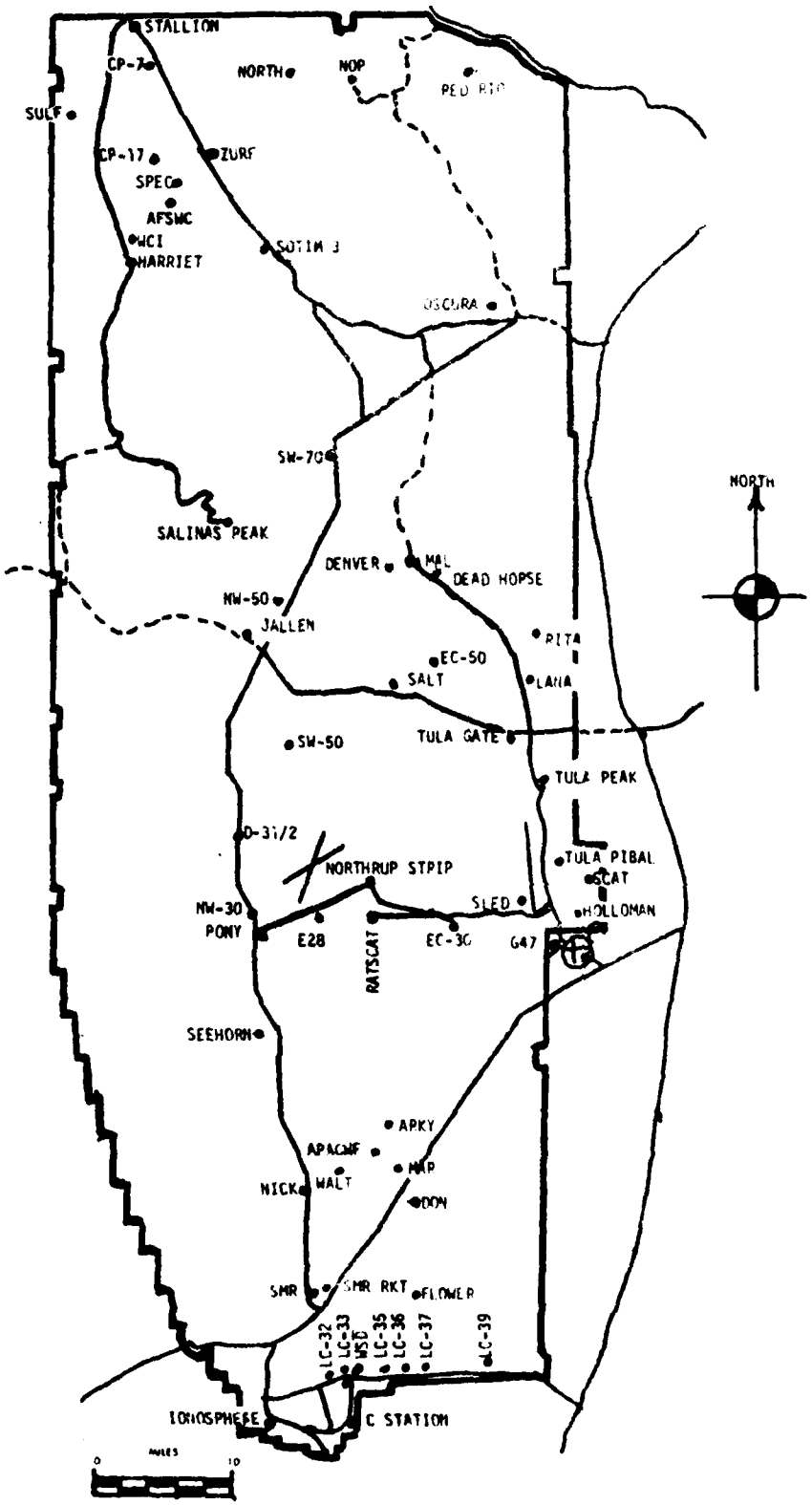
SITE AND ALTITUDE	
D3½	500 meters
Dead Horse	950 meters

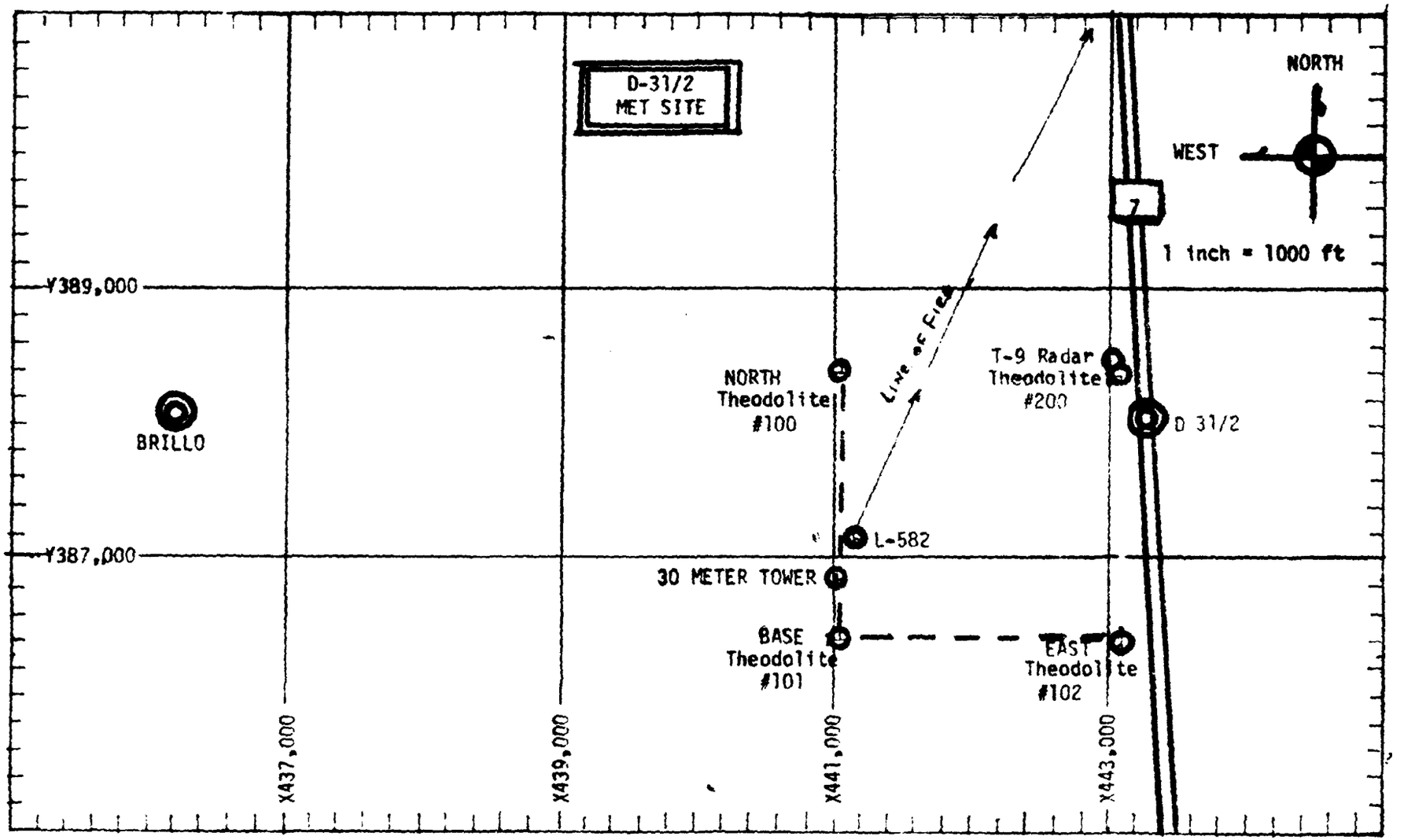
(2) Air structure data (rawinsonde were collected at the following Met Sites.

SITE AND TIME	
WSD	0845 MDT
NW-30	1130 MDT
JALLEN	1211 MDT
JALLEN	1444 MDT

Accession For	
NTIS GRA&I	☒
DTIC TAB	☐
Unannounced	☐
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	

WSMR METEOROLOGICAL SITES




D-31/2
MET SITE
NORTH
WEST
1 inch = 1000 ft
Y389,000
Y387,000
BRILLO
NORTH
Theodolite
#100
Line of Fire
T-9 Radar
Theodolite
#200
D 31/2
L-582
30 METER TOWER
BASE
Theodolite
#101
EAST
Theodolite
#102
X437,000
X439,000
X441,000
X443,000

PROJECT SURFACE OBSERVATION

TABLE 1

STATION NW-30

DATE 30 (DAY) 07 (MONTH) 84 (YEAR)

X= 449,712.25 Y=361,358.53 H= 4015.85

TIME M D T	PRESSURE mbs	TEMPERATURE °F	TEMPERATURE °C	DEW POINT °F	DEW POINT °C	RELATIVE HUMIDITY %	DENSITY gm/m³	WIND DIRECTION degs Tn	WIND SPEED kts	WIND CHARACTER kts	VISIBILITY
1415	880.2		32.8		7.2	20		090	10		40
1513	880.0		33.6		9.4	23,		080	04		40

OBSTRUCTIONS TO VISIBILITY	CLOUDS 1st LAYER AMT	1st LAYER TYPE	1st LAYER HGT	2nd LAYER AMT	2nd LAYER TYPE	2nd LAYER HGT	3rd LAYER AMT	3rd LAYER TYPE	3rd LAYER HGT	REMARKS
	3	CU	6000	0	AC	12000	1	CI	24000	T C U E
	3	CU	6000	0	AC	12000	1	CI	24000	

PSYCHROMETRIC COMPUTATION

TIME: MDT	1415	1513	
DRY BULB TEMP.	32.8	33.6	
WET BULB TEMP.	17.2	18.0	
WET BULB DEPR.	15.6	15.6	
DEW POINT	7.2	9.4	
RELATIVE HUMID.	20	23	

TABLE 2 **ANEMOMETER DATA - 30 Ft Level of 30 Meter Tower**

X= 461,016.71 Y= 386,849.19 H= 4064.80 (BASE)

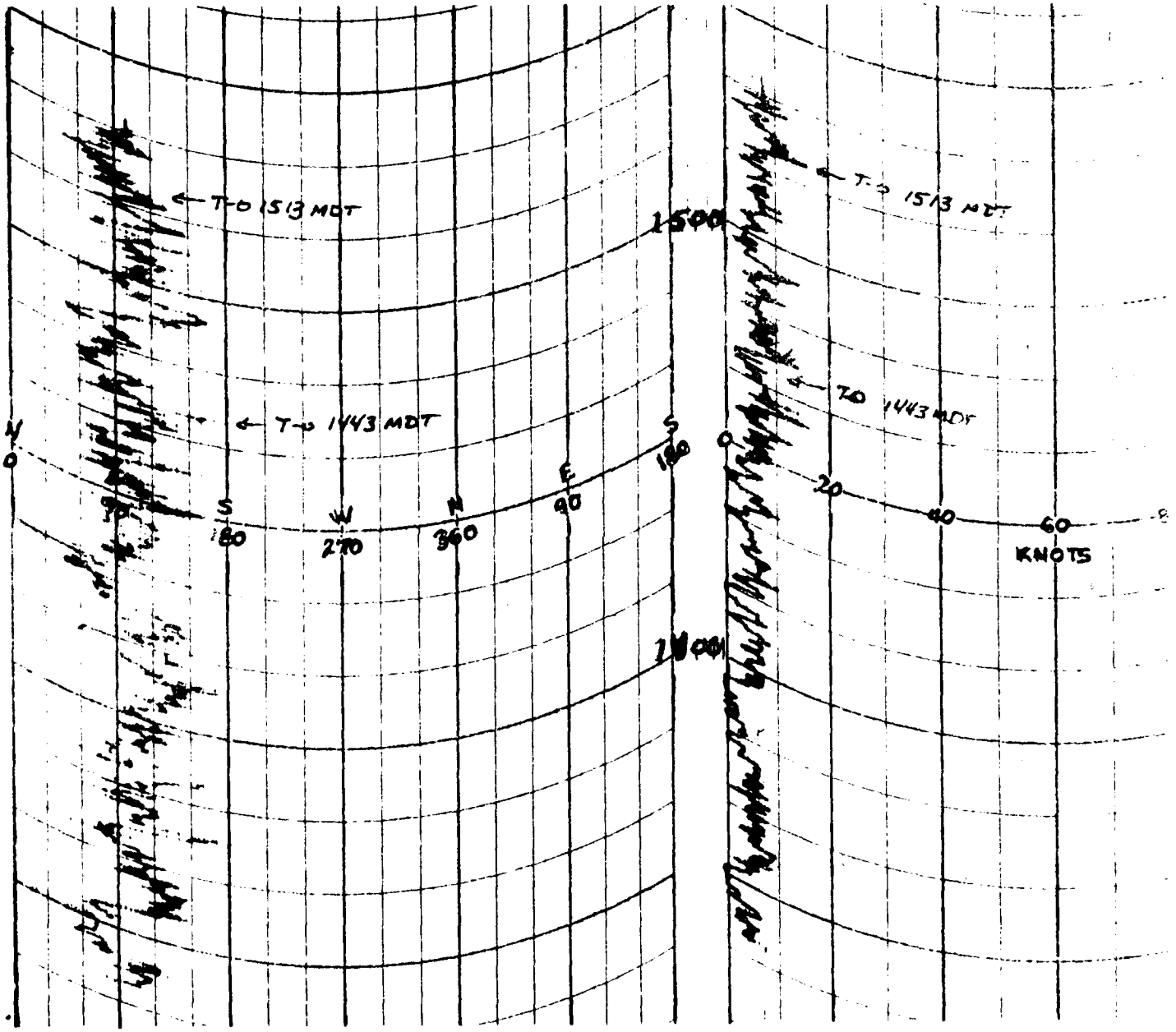


TABLE 3 **ANEMOMETER DATA - 60 Ft Level of 30 Meter Tower**

X= 441,018.71 Y= 386,649.19 H= 4004.60(BASE)

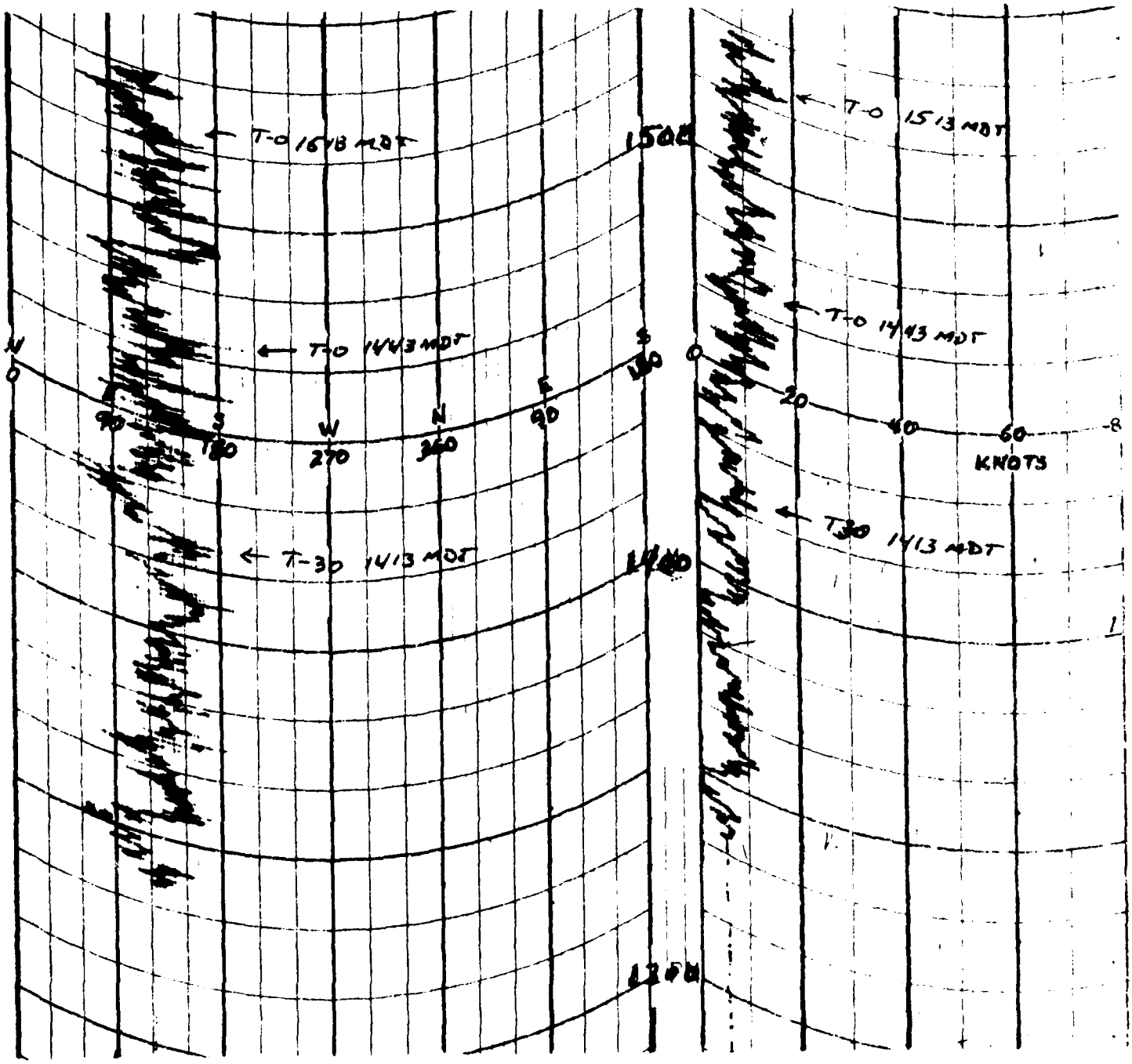


TABLE 4 **ANEMOMETER DATA - 90 Ft Level of 30 Meter Tower**

X= 441,018.71 Y= 386,849.19 H= 4004.80 (BASE)

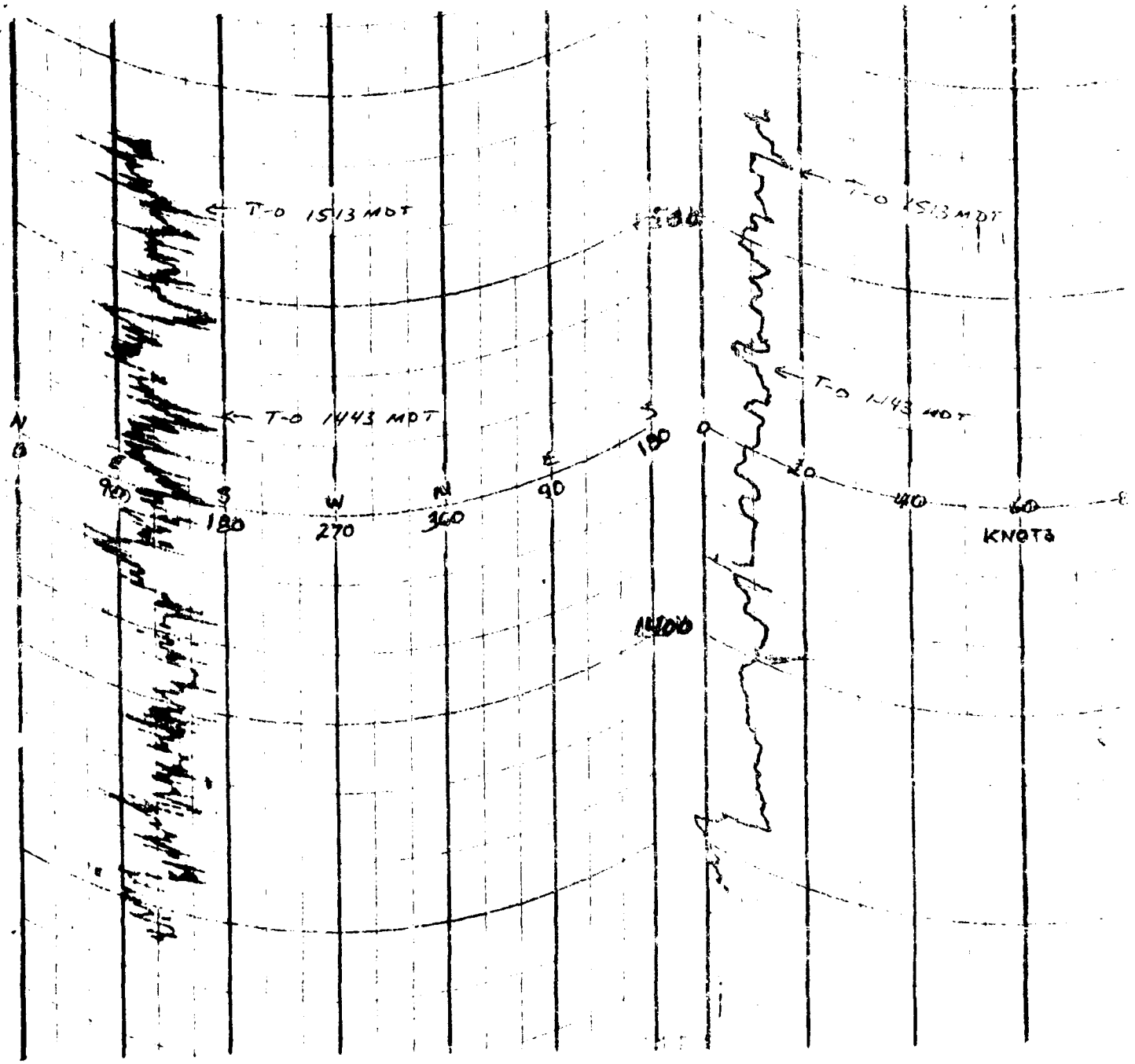


TABLE 5

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 30 July 1984

SITE: D3½
TIME: 1445 MDT
WSTM COORDINATES:
X= 441,072.67
Y= 386,316.94
H= 4,008.31

SITE: Deadhorse
TIME: 1444 MDT
WSTM COORDINATES:
X= 589,982.11
Y= 490,249.63
H= 4,133.12

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	150	04
150	093	11
210	094	10
270	095	08
330	100	07
390	107	07
500	111	06
650		
800		
950		
1150		
1350		
1550		
1750		
2000		

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	160	05
150	200	05
210	220	05
270	220	04
330	220	04
390	330	02
500	180	05
650	170	10
800	170	12
950	170	13
1150	160	08
1350	170	03
1550	ENTERED CLOUDS	
1750		
2000		

Data obtained from Double Theodolite Tracked Pilot-Balloon observations.

TABLE 6

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 30 July 1984

SITE: D3½
TIME: 1514 MDT
WSTM COORDINATES:
X= 441,092.67
Y= 386,316.94
H= 4,008.31

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	150	03
150	104	13
210	105	12
270	108	10
330	110	08
390	106	06
500	111	05
650		
800		
950		
1150		
1350		
1550		
1750		
2000		

SITE: Deadhorse
TIME 1515 MDT
WSTM COORDINATES:
X= 519,982.11
Y= 490,249.23
H= 4,133.12

LAYER MIDPOINT METERS AGL	DIRECTION DEGREES	SPEED KNOTS
SURFACE	150	05
150	160	05
210	150	06
270	150	06
330	160	06
390	170	05
500	160	07
650	170	04
800	190	03
950	220	02
1150		
1350		
1550		
1750		
2000		

Data obtained from Double Theodolite Tracked Pilot-Balloon Observations

TABLE 7

AIMING AND T-TIME COMPUTER MET MESSAGE DATA

30 July 1984

WSD 0845 MDT		NW-30 1130 MDT		JALLEN 1211 MDT		JALLEN 1444 MDT	
METCM1324064		METCM1329065		METCM1332065		METCM1332065	
301480122884		301750123883		301820124880		302070124878	
00000000	29870884	00107001	30350883	00391005	30710880	00373010	30950878
01300005	29710873	01204001	30110873	01274007	30450870	01296013	30560869
02323011	29520849	02126004	29810849	02313005	30130845	02281005	30320845
03336011	29330810	03367002	29510811	03290006	29710808	03241006	29900807
04270009	28960764	04438004	29120765	04124001	29200763	04225006	29400762
05202006	28670720	05391002	28680721	05627005	28720719	05188004	28920719
06148008	28100678	06167006	28300679	06225004	28320678	06189003	28440677
07214007	27710638	07226008	27890639	07300007	27870638	07300005	27970638
08197012	27440600	08223014	27460601	08255011	27420600	08308005	27540600
09210016	27020563	09237016	27130565	09258012	27100563	09219007	27220563
10235011	26870529	10309008	26980530	10347006	26910529	10190003	26910529
11260003	26790496	11530005	26880498	11004005	26830496	11096008	26720497
12170002	26150451	12079007	26420452	12065010	26300451	12081009	26290451
13132004	25570395	13115006	25650397	13101008	25560395	13079006	25560395
14111008	24630345	14149005	24920347	14123007	24820345	14020003	24790345
15159008	24140300	15086003	24150302	15081003	24040300	15030005	24020300
16181013	22990260	16188011	23320261	16197008	23240260	16146005	23260260
17185011	22300223	17198013	22560225	17199011	22460224	17143014	22480224
18157013	21490191	18180016	21780193	18191019	21670192	18139018	21640192
19161020	20820163	19184021	20950165	19160018	20940164	19134013	20890164
20207007	20280138	20121002	20480140	20082008	20380139	20618009	20500139
21041014	20280117	21068016	20540119	21077018	20410118	21096019	20270118
22144013	20480099	22168010	20610101	22160010	20540100	22138010	20510100
23150016	20690084	23125017	20940085	23114016	20720085	23114017	20730085
24144019	21190071	24180020	21190073	24179023	21040072	24178013	21060072
25134017	21290061	25160018	21370062	25152018	21370061	25164020	21330061
26155030	21350052	26164028	21570053	26157025	21730052	26166026	21540052

STATION ALTITUDE 3989.00 FEET MSL
30 JULY 84 0845 MDT
ASCENSION NO. 396

SIGNIFICANT LEVEL DATA
21230230396
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 8

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT
883.5	3989.0	23.7	12.7	50.0
874.9	4269.7	23.0	12.0	50.0
850.0	5094.2	21.0	10.2	50.0
795.7	6964.7	18.6	5.3	44.0
726.6	9500.1	12.3	5.5	63.0
700.0	10525.5	10.4	1.8	55.0
668.5	11766.8	7.0	-.7	58.0
604.4	14472.7	.1	-2.0	86.0
584.0	15376.8	-1.0	-7.3	62.0
577.1	15688.3	-2.2	-5.5	72.0
569.2	16048.4	-2.7	-8.0	67.0
564.9	16246.5	-2.3	-5.0	65.0
558.0	16567.0	-3.6	-9.8	62.0
543.2	17255.4	-3.9	-16.7	36.0
531.2	17844.8	-4.4	-17.2	36.0
518.0	18497.4	-3.9	-23.0	21.0
500.0	19414.1	-4.5	-25.5	16.0
497.9	19523.2	-4.2	-25.2	16.0
476.8	20641.5	-6.2	-27.2	17.0
460.0	25072.3	-16.7	-32.4	24.0
427.8	26475.9	-19.7	-35.5	23.0
300.0	31969.4	-32.5	-46.5	25.0
276.1	34038.8	-38.6	-50.8	26.0
250.0	36099.5	-43.5		
200.0	40923.1	-54.9		
166.9	44654.9	-64.2		
150.0	46786.4	-68.6		
144.9	47467.9	-69.7		
141.1	47991.6	-68.6		
134.9	50392.0	-70.2		
128.4	51411.3	-68.4		
127.9	53275.2	-69.9		
100.0	54768.8	-69.9		
96.9	60055.8	-60.0		
90.0	61994.2	-59.9		
87.0	62970.0	-58.6		
85.1	63494.2	-60.4		
80.0	68968.9	-57.1		
63.9	71699.3	-55.6		
56.9	75026.4	-51.3		

STATION ALTITUDE [illegible] FEET MSL
30 JULY 9[illegible]
ASCENSION NO. [illegible]

0845 MDT

SIGNIFICANT LEVEL DATA
[illegible]0320396
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 8 Cont'd

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DE.POINT DEGREES CENTIGRADE	REL.HUM. PERCENT
[illegible].0	79520.9	-53.6		
20.0	58626.0	-44.7		
[illegible].[illegible]	97780.1	-39.1		
10.0	104264.0	-38.8		
[illegible].4	105672.0	-38.9		

UPPER AIR DATA

STATION ALTITUDE 3959.0 FEET MSL
30 JULY 84 0845 MDT
ASCENSION NO. 396

WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 9

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
3989.0	853.5	23.7	12.7	50.0	1030.3	673.3	.0	.0	1.000293
4000.0	853.2	23.7	12.6	50.0	1030.0	673.3	193.6	.1	1.000293
4500.0	837.9	22.4	11.5	50.0	1016.8	671.5	193.6	3.7	1.000286
5000.0	852.8	21.2	10.4	50.0	1003.6	670.3	193.6	7.4	1.000279
5500.0	837.9	20.5	9.4	48.7	988.7	669.4	193.6	11.0	1.000272
6000.0	823.3	19.9	8.3	47.1	973.6	668.6	191.4	11.4	1.000265
6500.0	808.9	19.3	7.3	45.6	958.8	667.9	187.5	11.0	1.000259
7000.0	794.7	18.7	6.3	44.3	944.2	667.1	172.8	10.6	1.000253
7500.0	780.6	17.4	6.3	48.0	931.5	665.6	161.3	10.2	1.000251
8000.0	766.7	16.1	6.2	51.5	918.9	664.2	153.8	9.2	1.000246
8500.0	753.1	14.9	6.0	55.5	906.6	662.7	148.8	8.0	1.000245
9000.0	739.7	13.6	5.8	59.3	894.5	661.2	141.9	6.7	1.000242
9500.0	726.6	12.3	5.5	63.0	882.6	659.8	122.1	5.9	1.000239
10000.0	713.5	11.4	3.7	59.1	869.9	658.5	99.5	6.0	1.000231
10500.0	700.7	10.4	1.9	55.2	857.4	657.3	80.2	7.0	1.000224
11000.0	687.9	9.1	.8	56.1	846.0	655.7	78.9	7.7	1.000219
11500.0	675.4	7.7	-.2	57.4	834.8	654.0	85.8	8.0	1.000215
12000.0	663.0	6.4	-.7	60.4	823.4	652.5	101.1	8.0	1.000212
12500.0	650.7	5.1	-.8	65.6	811.8	651.0	112.7	8.0	1.000209
13000.0	638.6	3.9	-1.0	70.8	800.5	649.5	117.1	7.5	1.000207
13500.0	626.8	2.6	-1.2	75.9	789.3	648.0	115.3	7.8	1.000204
14000.0	615.2	1.3	-1.6	81.1	778.2	646.5	111.1	8.6	1.000201
14500.0	603.6	.1	-2.1	85.3	767.3	645.0	110.9	10.5	1.000196
15000.0	592.4	-.5	-5.0	72.0	755.0	644.1	111.3	12.6	1.000190
15500.0	581.3	-1.5	-7.0	66.0	743.6	642.9	111.5	15.4	1.000184
16000.0	570.3	-2.6	-7.8	67.7	732.7	641.5	116.4	16.9	1.000181
16500.0	559.4	-3.3	-9.4	62.6	720.8	640.6	119.9	17.7	1.000176
17000.0	548.8	-3.8	-13.7	45.9	708.7	639.9	126.6	17.1	1.000169
17500.0	538.7	-4.1	-16.9	36.0	696.2	639.4	134.8	14.4	1.000164
18000.0	528.0	-4.3	-18.3	32.4	683.4	639.1	137.0	11.8	1.000160
18500.0	517.9	-3.9	-23.0	21.0	669.7	639.5	139.5	8.9	1.000157
19000.0	508.1	-4.2	-24.8	18.3	657.7	639.1	141.2	5.5	1.000151
19500.0	498.3	-4.3	-26.3	16.8	645.3	639.0	146.4	2.4	1.000147
20000.0	488.5	-5.1	-26.6	16.4	634.8	638.1	230.2	.4	1.000145
20500.0	479.4	-5.9	-27.1	15.9	624.7	637.0	331.3	.4	1.000143
21000.0	470.1	-7.0	-27.5	17.6	615.1	635.7	39.7	.8	1.000140
21500.0	460.9	-8.2	-28.1	18.4	605.7	634.2	98.1	1.4	1.000136
22000.0	451.9	-9.4	-28.6	19.1	596.5	632.8	109.9	2.5	1.000134
22500.0	442.9	-10.6	-29.2	19.9	587.5	631.4	104.1	3.7	1.000134
23000.0	434.2	-11.8	-29.9	20.7	578.5	630.0	98.1	4.2	1.000132

STATION ALTITUDE 3999.00 FEET MSL
30 JULY 84 0845 MDT
ASCENSION NO. 396

UPPER AIR DATA
2130220396
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 9 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEW POINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
23500.0	425.7	-13.0	-30.4	21.5	569.8	628.5	88.4	4.1	1.000130
24000.0	417.4	-14.2	-31.0	22.3	561.2	627.1	82.5	3.9	1.000126
24500.0	409.2	-15.3	-31.7	23.1	552.7	625.6	77.6	3.6	1.000126
25000.0	401.1	-16.5	-32.3	23.4	544.4	624.2	72.9	3.8	1.000124
25500.0	393.1	-17.6	-33.4	23.7	535.7	622.9	69.2	4.1	1.000121
26000.0	385.2	-18.7	-34.4	23.3	527.2	621.6	68.1	4.5	1.000119
26500.0	377.4	-19.8	-35.5	23.0	518.7	620.2	67.5	5.1	1.000117
27000.0	369.6	-20.9	-36.5	23.0	510.3	618.8	67.0	6.0	1.000115
27500.0	361.9	-22.1	-37.5	23.0	502.0	617.4	65.1	7.0	1.000113
28000.0	354.4	-23.3	-38.5	23.0	493.9	615.9	62.2	7.9	1.000111
28500.0	347.0	-24.4	-39.5	23.0	485.9	614.5	61.2	8.4	1.000109
29000.0	339.8	-25.6	-40.5	23.0	478.1	613.0	61.7	8.7	1.000108
29500.0	332.8	-26.7	-41.5	23.0	470.4	611.6	63.2	8.2	1.000106
30000.0	325.9	-27.9	-42.5	23.0	462.8	610.1	66.7	7.3	1.000104
30500.0	319.1	-29.1	-43.5	23.0	455.4	608.7	69.1	6.4	1.000102
31000.0	312.5	-30.2	-44.6	23.0	448.0	607.2	72.5	6.1	1.000101
31500.0	306.0	-31.4	-45.6	23.0	440.9	605.8	78.5	6.5	1.000099
32000.0	299.6	-32.6	-46.6	23.0	433.9	604.3	84.1	7.5	1.000097
32500.0	293.1	-34.1	-47.6	23.8	427.1	602.4	92.1	8.8	1.000096
33000.0	286.5	-35.5	-48.6	24.5	420.5	600.6	99.1	10.4	1.000094
33500.0	280.0	-37.0	-49.6	25.2	414.0	598.7	102.6	11.8	1.000093
34000.0	274.6	-38.5	-50.7	25.9	407.6	596.8	104.1	13.0	1.000091
34500.0	268.6	-39.7	-53.9	20.2**	400.7	595.3	107.1	13.4	1.000090
35000.0	262.3	-40.9	-57.9	13.6**	393.8	593.7	108.9	13.7	1.000086
35500.0	256.8	-42.1	-63.5	7.6**	387.1	592.2	99.9	13.2	1.000086
36000.0	251.1	-43.3	-76.6	1.3**	380.5	590.7	97.1	13.1	1.000085
36500.0	245.4	-44.6			373.9	589.2	99.7	12.6	1.000083
37000.0	239.8	-45.8			367.1	587.7	102.9	11.9	1.000084
37500.0	234.3	-46.9			360.6	586.1	107.7	10.7	1.000083
38000.0	228.8	-48.1			354.2	584.6	119.5	9.3	1.000079
38500.0	223.7	-49.1			347.9	583.1	109.5	9.1	1.000077
39000.0	218.6	-50.1			341.7	581.6	106.7	9.4	1.000076
39500.0	213.6	-51.1			335.7	580.0	104.3	9.8	1.000075
40000.0	208.7	-52.1			329.7	578.5	100.4	10.3	1.000073
40500.0	204.0	-53.1			323.9	577.0	96.1	10.5	1.000074
41000.0	199.3	-55.0			318.2	575.4	89.2	11.7	1.000071
41500.0	194.9	-56.3			312.4	573.7	84.1	13.9	1.000070
42000.0	190.5	-57.5			306.7	572.1	84.1	14.4	1.000068
42500.0	186.2	-58.8			301.1	570.4	85.8	15.2	1.000067
43000.0	182.0	-60.2			295.6	568.7	87.5	16.1	1.000066

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3959.00 FEET MSL
30 JULY 94 0845 MDT
ASCENSION NO. 396

UPPER AIR DATA
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 9 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DE.POINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
43500.0	176.5	-61.3			290.2	567.0	89.3	16.4	1.000065
44000.0	172.3	-62.6			285.0	565.4	89.1	17.2	1.000063
44500.0	168.2	-63.8			279.8	563.7	89.0	18.2	1.000062
45000.0	164.0	-64.9			274.4	562.2	89.7	20.3	1.000061
45500.0	160.0	-65.9			269.0	560.8	90.3	22.4	1.000060
46000.0	156.0	-67.0			263.6	559.4	91.9	23.6	1.000059
46500.0	152.2	-68.0			258.4	558.0	93.9	23.9	1.000058
47000.0	148.4	-68.9			253.1	556.7	98.5	21.1	1.000056
47500.0	144.7	-69.6			247.6	555.8	104.6	18.2	1.000055
48000.0	141.0	-68.6			240.2	557.2	118.4	11.4	1.000053
48500.0	137.5	-68.9			234.6	556.7	154.6	6.4	1.000052
49000.0	134.1	-69.3			229.1	556.3	213.6	5.4	1.000051
49500.0	130.7	-69.6			223.7	555.8	251.0	8.6	1.000050
50000.0	127.4	-69.9			218.4	555.4	281.1	8.6	1.000049
50500.0	124.2	-70.0			213.0	555.3	305.9	10.6	1.000047
51000.0	121.1	-69.1			206.6	556.5	349.7	12.7	1.000046
51500.0	118.1	-68.5			201.0	557.4	12.9	18.2	1.000045
52000.0	115.1	-68.9			196.3	556.8	31.1	20.5	1.000044
52500.0	112.2	-69.3			191.8	556.3	44.3	23.0	1.000043
53000.0	109.4	-69.7			187.3	555.7	55.8	21.5	1.000042
53500.0	106.7	-69.9			182.8	555.4	66.5	20.1	1.000041
54000.0	104.0	-69.9			178.2	555.4	72.6	17.0	1.000040
54500.0	101.4	-69.9			173.8	555.4	80.3	14.5	1.000039
55000.0	98.9	-69.5			169.1	556.0	87.1	12.8	1.000038
55500.0	96.4	-68.5			164.2	557.3	92.6	11.7	1.000037
56000.0	94.1	-67.6			159.4	558.5	89.1	11.3	1.000036
56500.0	91.8	-66.7			154.8	559.8	84.7	11.3	1.000034
57000.0	89.5	-65.7			150.3	561.1	78.2	12.1	1.000033
57500.0	87.3	-64.8			146.0	562.4	74.4	13.3	1.000033
58000.0	85.2	-63.8			141.8	563.6	79.7	15.9	1.000032
58500.0	83.1	-62.9			137.7	564.9	82.1	18.3	1.000031
59000.0	81.0	-62.0			133.7	566.1	86.7	19.7	1.000030
59500.0	79.1	-61.0			129.8	567.4	90.4	21.0	1.000029
60000.0	77.1	-60.1			126.1	568.6	92.7	20.9	1.000028
60500.0	75.3	-60.0			123.0	568.8	94.2	20.9	1.000027
61000.0	73.5	-60.0			120.0	568.8	92.9	19.8	1.000027
61500.0	71.7	-59.9			117.1	568.9	90.3	18.5	1.000026
62000.0	70.0	-59.9			114.3	568.9	87.3	17.3	1.000025
62500.0	68.3	-59.3			111.3	569.7	81.9	16.1	1.000025
63000.0	66.7	-59.1			108.5	570.0	75.9	15.2	1.000024

STATION ALTITUDE 3959.00 FEET MSL
30 JULY 84 0845 MDT
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UPPER AIR DATA
2120320396
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 9 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
63500.0	55.1	-60.4			106.6	568.2	74.7	15.1	1.000024
64000.0	53.5	-60.1			103.9	568.6	73.9	15.2	1.000023
64500.0	52.0	-59.8			101.3	569.0	73.2	16.0	1.000023
65000.0	50.5	-59.5			98.7	569.4	68.0	17.4	1.000022
65500.0	49.1	-59.2			96.2	569.8	67.3	19.2	1.000021
66000.0	47.7	-58.9			93.8	570.3	69.5	21.8	1.000021
66500.0	46.3	-58.6			91.4	570.7	71.2	24.4	1.000020
67000.0	45.0	-58.3			89.1	571.1	72.3	26.7	1.000020
67500.0	43.7	-58.0			86.9	571.5	82.6	29.4	1.000019
68000.0	42.4	-57.7			84.7	571.9	86.2	30.9	1.000019
68500.0	41.2	-57.4			82.6	572.3	90.0	31.9	1.000018
69000.0	40.0	-57.1			80.5	572.7	93.7	32.7	1.000018
69500.0	38.8	-56.8			78.5	573.0	94.1	32.5	1.000017
70000.0	37.6	-56.5			76.6	573.4	94.5	32.0	1.000017
70500.0	36.5	-56.2			74.7	573.7	94.3	33.0	1.000017
71000.0	35.4	-56.0			72.8	574.1	94.0	33.	1.000016
71500.0	34.3	-55.7			71.0	574.5	94.7	34.7	1.000016
72000.0	33.3	-55.3			69.2	575.0	95.7	34.4	1.000015
72500.0	32.3	-54.7			67.4	575.8	97	34.	1.000015
73000.0	31.3	-54.2			65.7	576.5	97.3	33.3	1.000015
73500.0	30.3	-53.6			64.0	577.2	97.1	31.8	1.000014
74000.0	29.4	-53.1			62.4	577.9	97.1	30.2	1.000014
74500.0	28.5	-52.5			60.8	578.6	96.8	28.7	1.000013
75000.0	27.6	-52.0			59.3	579.4	96.5	27.3	1.000013
75500.0	26.7	-51.4			57.8	580.1	96.2	25.9	1.000012
76000.0	25.9	-50.9			56.4	580.9	100.6	24.7	1.000012
76500.0	25.1	-50.3			55.1	579.7	100.8	24.1	1.000011
77000.0	24.3	-49.8			53.9	579.6	100.7	23.6	1.000011
77500.0	23.5	-49.			52.7	579.0	100.5	23.1	1.000011
78000.0	22.7	-48.			51.6	578.7	97.	22.7	1.000010
78500.0	21.9	-47.3			50.4	578.4	96.7	22.3	1.000010
79000.0	21.2	-46.8			49.3	578.1	97	22.0	1.000010
79500.0	20.5	-46.3			48.2	577.7	98.2	21.7	1.000010
80000.0	19.8	-45.8			47.1	577.7	97.7	21.3	1.000010
80500.0	19.1	-45.3			46.0	578.4	94.4	21.0	1.000010
81000.0	18.4	-44.8			44.8	579.0	94.1	20.8	1.000010
81500.0	17.8	-44.3			43.7	579.7	94.1	21.9	1.000010
82000.0	17.1	-43.8			42.6	580.3	94.9	22.3	1.000009
82500.0	16.5	-43.3			41.5	581.0	95	22.5	1.000009
83000.0	15.9	-42.7			40.5	581.6	95.3	23.1	1.000009

STATION ALTITUDE 3989.00 FEET MSL
30 JULY 84 0945 MDT
ASCENSION NO. 396

UPPER AIR DATA
21000396
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 9 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEW-POINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
93500.0	25.3	-49.8			39.5	582.3	86.2	33.7	1.000009
94000.0	24.7	-49.3			38.5	582.9	86.1	34.2	1.000009
94500.0	24.2	-48.8			37.6	583.6	86.0	34.6	1.000008
95000.0	23.6	-48.3			36.6	584.2	85.1	35.6	1.000008
95500.0	23.1	-47.8			35.7	584.8	84.0	36.8	1.000008
96000.0	22.6	-47.3			34.8	585.5	83.1	37.9	1.000008
96500.0	22.1	-46.8			33.9	586.1	84.6	38.9	1.000006
97000.0	21.6	-46.3			33.1	586.8	86.6	39.9	1.000007
97500.0	21.1	-45.8			32.3	587.4	88.5	40.9	1.000007
98000.0	20.6	-45.3			31.5	588.0	91.5	41.1	1.000007
98500.0	20.1	-44.8			30.7	588.7	94.7	41.2	1.000007
99000.0	19.7	-44.5			30.0	589.1	97.9	41.4	1.000007
99500.0	19.2	-44.2			29.3	589.5	98.7	40.6	1.000007
100000.0	18.8	-43.9			28.6	589.9	99.0	39.5	1.000006
100500.0	18.4	-43.6			27.9	590.3	99.3	38.4	1.000006
101000.0	18.0	-43.2			27.3	590.7	98.6	38.2	1.000006
101500.0	17.6	-42.9			26.6	591.1	97.6	38.2	1.000006
102000.0	17.2	-42.6			26.0	591.5	96.6	38.2	1.000006
102500.0	16.8	-42.3			25.4	591.9	95.6	38.7	1.000006
103000.0	16.5	-42.0			24.8	592.3	94.5	39.2	1.000006
103500.0	16.1	-41.7			24.2	592.7	93.5	39.8	1.000005
104000.0	15.7	-41.4			23.7	593.1	92.5	41.6	1.000005
104500.0	15.4	-41.1			23.1	593.4	91.5	44.0	1.000005
105000.0	15.1	-40.8			22.6	593.8	90.6	46.4	1.000005
105500.0	14.7	-40.5			22.0	594.2	90.0	47.2	1.000005
106000.0	14.4	-40.2			21.5	594.6	89.4	47.2	1.000005
106500.0	14.1	-39.9			21.0	595.0	88.9	47.2	1.000005
107000.0	13.8	-39.6			20.5	595.4	88.3	46.8	1.000005
107500.0	13.5	-39.3			20.1	595.8	87.6	46.3	1.000004
108000.0	13.2	-39.1			19.6	596.0	87.0	45.7	1.000004
108500.0	12.9	-39.1			19.2	596.0	86.6	45.4	1.000004
109000.0	12.6	-39.0			18.8	596.1	87.1	45.7	1.000004
109500.0	12.3	-39.0			18.3	596.1	87.5	46.0	1.000004
110000.0	12.1	-39.0			17.9	596.1	87.9	46.3	1.000004
110500.0	11.8	-39.0			17.6	596.2	88.7	45.8	1.000004
111000.0	11.5	-39.0			17.2	596.2	89.9	44.8	1.000004
111500.0	11.3	-38.9			16.8	596.2	91.2	43.7	1.000004
112000.0	11.0	-38.9			16.4	596.3	92.5	42.7	1.000004
112500.0	10.8	-38.9			16.1	596.3			1.000004
113000.0	10.6	-38.9			15.7	596.3			1.000003

STATION ALTITUDE 3989.00 FEET MSL
30 JULY [illegible] 0845 MDT
ASCENSION NO. 39[illegible]

UPPER AIR DATA
2120020396
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 9 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	DEWPOINT	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
103500.0	10.2	-38.8			15.4	596.3			1.000003
104000.0	10.1	-38.8			15.0	596.4			1.000003
104500.0	9.9	-38.8			14.7	596.4			1.000003
105000.0	9.7	-38.9			14.4	596.3			1.000003
105500.0	9.5	-38.9			14.1	596.3			1.000003

STATION ALTITUDE 3989.00 FEET MSL
30 JULY 84 0845 MDT
ASCENSION NO. 396

MANDATORY LEVELS
2120320396
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 10

PRESSURE	GEOPOTENTIAL	TEMPERATURE AIR	TEMPERATURE DEWPOINT	REL.HUM.	WIND DATA DIRECTION	WIND DATA SPEED
MILLIBARS	FEET	DEGREES CENTIGRADE		PERCENT	DEGREES(TN)	KNOTS
850.0	5090.	21.0	10.2	50.	193.6	8.3
800.0	6807.	19.0	6.6	44.	175.5	10.6
750.0	8614.	14.6	6.0	56.	147.7	7.7
700.0	10515.	10.4	1.9	55.	79.6	7.1
650.0	12522.	5.1	-.8	66.	113.0	6.0
600.0	14648.	-.1	-3.0	81.	110.7	11.1
550.0	16920.	-7.8	-13.1	48.	125.5	16.4
500.0	19366.	-4.5	-26.5	16.	145.2	2.9
450.0	22086.	-9.7	-28.7	19.	108.2	2.7
400.0	25030.	-16.7	-32.4	24.	72.3	3.6
350.0	28276.	-23.9	-39.1	23.	61.1	8.2
300.0	31905.	-32.5	-46.5	23.	83.6	7.4
250.0	36019.	-43.5			97.5	13.7
200.0	40823.	-54.8			91.1	11.5
175.0	43580.	-61.7			89.7	16.7
150.0	46658.	-68.6			96.2	22.4
125.0	50230.	-70.2			299.0	9.9
100.0	54598.	-69.9			85.3	13.7
80.0	59047.	-61.5			86.	21.4
70.0	61780.	-59.9			87.4	17.1
60.0	64942.	-59.4			67.1	17.9
50.0	68707.	-57.1			93.7	32.7
40.0	73373.	-53.4			90.7	26.
30.0	79477.	-53.6			86.4	35.1
25.0	83361.	-49.5			86.	37.2
20.0	88209.	-44.7			95.0	43.
15.0	94579.	-40.8			90.7	46.
10.0	103693.	-38.8				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

SIGNIFICANT LEVEL DATA

[illegible]

No. [illegible]

STATION ALTITUDE [illegible] FEET MSL
70 JULY [illegible]
ASCENSION NO. [illegible]

GEODETIC COORDINATES
32.[illegible]5497 LAT DEG
106.49714 LON DEG

TABLE II

PRESSURE	GEOMETRIC ALTITUDE	TEMPERATURE AIR	DEWPOINT	REL.HUM. PERCENT
MILLIBARS	MSL FEET	DEGREES CENTIGRADE		
[illegible]	4[illegible]1	[illegible]	1[illegible].5	40.0
[illegible]	[illegible]	[illegible]	[illegible]	39.0
[illegible]	[illegible]	[illegible]	[illegible]	40.0
[illegible]	[illegible]	[illegible]	[illegible]	41.[illegible]
[illegible]	[illegible]	[illegible]	7.[illegible]	44.[illegible]
[illegible]	[illegible]	[illegible]	[illegible].7	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	68.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	71.[illegible]
[illegible]	[illegible]	[illegible]	-1.9	45.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	6[illegible].
[illegible]	1461.[illegible]	[illegible]	[illegible]	75.[illegible]
[illegible]	149[illegible].	[illegible]	-[illegible].6	72.[illegible]
[illegible]	15795.[illegible]	-1.[illegible]	[illegible]	85.[illegible]
[illegible]	1[illegible]731.6	-3.[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	-3.[illegible]	-1[illegible]	[illegible]
[illegible]	[illegible]	-3.[illegible]	-2[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-2[illegible]	17.[illegible]
[illegible]	[illegible]	[illegible]	-15.[illegible]	[illegible]
[illegible]	[illegible]	-1[illegible]	[illegible]	2[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	22.[illegible]
[illegible]	[illegible]	[illegible]	-51.[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	-51.[illegible]		
[illegible]	[illegible]	-[illegible]1.		
[illegible]	[illegible]	-57.[illegible]		
[illegible]	[illegible]	[illegible]57.[illegible]		
[illegible]	[illegible]	-54.[illegible]		

STATION ALTITUDE 4010.40 FEET MSL
20 JULY 84 1130 MDT
ASCENSION NO. 17

UPPER AIR DATA
(120223017
Na [illegible]

TABLE 12

GEODETIC COORDINATES
32.86497 LAT DEG
106.49714 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEW-POINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4010.4	853.2	28.4	13.5	40.0	1013.5	678.8	60.0	1.0	1.000290
4500.0	858.4	25.6	10.8	39.4	1006.9	675.3			1.000279
5000.0	853.5	24.0	9.7	40.4	995.2	673.4			1.000274
5500.0	838.6	22.2	8.4	41.6	984.1	671.3			1.000268
6000.0	824.0	21.4	8.1	42.4	969.9	670.2			1.000263
6500.0	809.7	20.5	7.6	43.2	955.9	669.2	205.8	1.4	1.000259
7000.0	795.8	19.6	7.0	44.0	942.1	668.2	227.7	2.0	1.000254
7500.0	781.5	18.3	6.9	47.1	929.7	666.7	239.0	2.8	1.000251
8000.0	767.6	16.9	6.7	50.3	917.5	665.1	245.3	3.6	1.000248
8500.0	754.0	15.6	6.3	53.5	905.5	663.5	246.4	3.8	1.000245
9000.0	740.8	14.2	5.7	56.7	893.6	661.9	244.5	3.6	1.000241
9500.0	727.4	12.8	5.2	59.9	882.0	660.3	232.7	2.8	1.000238
10000.0	714.3	11.5	4.7	63.1	870.5	658.8	194.0	1.5	1.000234
10500.0	701.6	10.7	4.9	67.5	857.1	657.9	106.5	2.2	1.000232
11000.0	688.9	9.8	3.7	66.7	845.0	656.6	94.7	4.3	1.000226
11500.0	676.4	8.7	-.7	51.7	833.3	655.1	95.9	6.2	1.000213
12000.0	664.2	7.5	-1.7	51.7	821.6	653.7	107.7	7.5	1.000209
12500.0	651.9	6.2	-1.7	56.5	810.1	652.2	118.0	7.7	1.000207
13000.0	639.9	5.0	-1.8	61.4	798.8	650.8	126.7	8.1	1.000204
13500.0	628.1	3.7	-2.1	66.3	787.9	649.2	127.9	9.4	1.000202
14000.0	616.6	2.3	-2.5	70.5	777.1	647.5	127.4	11.2	1.000199
14500.0	604.3	.9	-3.3	75.0	766.6	645.9	125.7	12.9	1.000196
15000.0	592.3	-.3	-4.6	72.0	755.5	644.5	124.3	13.1	1.000194
15500.0	580.4	-1.7	-4.2	80.1	744.0	643.3	123.6	13.0	1.000193
16000.0	571.4	-2.1	-4.7	83.1	732.5	642.2	123.1	12.9	1.000192
16500.0	560.6	-3.0	-5.3	78.6	720.9	641.2	125.5	12.7	1.000191
17000.0	549.9	-3.2	-10.5	56.9	708.2	640.7	124.1	12.5	1.000190
17500.0	539.4	-3.4	-16.1	34.5	695.8	640.3	125.3	12.4	1.000189
18000.0	529.2	-3.7	-22.0	22.4	683.5	639.8	126.2	12.3	1.000188
18500.0	519.1	-3.8	-23.1	20.6	670.9	639.6	126.9	12.2	1.000187
19000.0	509.1	-4.0	-24.3	18.7	659.5	639.4	127.5	12.1	1.000186
19500.0	499.3	-4.2	-23.1	17.4	646.4	639.1	127.7	12.0	1.000185
20000.0	489.7	-5.1	-22.6	23.7	636.1	638.9	127.9	11.9	1.000184
20500.0	480.2	-6.1	-21.9	30.0	626.0	638.8	128.1	11.8	1.000183
21000.0	471.0	-7.0	-19.4	36.3	616.1	638.9	128.3	11.7	1.000182
21500.0	462.0	-7.9	-16.6	42.7	606.3	638.8	128.5	11.6	1.000181
22000.0	453.2	-8.8	-16.4	46.7	597.0	638.5	128.6	11.5	1.000180
22500.0	444.6	-10.2	-21.4	29.1	587.9	638.3	128.8	11.4	1.000179
23000.0	436.4	-11.4	-28.6	35.5	579.0	638.5	129.0	11.5	1.000178
23500.0	428.4	-12.5	-29.9	31.8	570.3	638.1	129.1	11.7	1.000177

** WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES

STATION ALTITUDE 4010.40 FEET MSL
TO JULY 84 1130 MDT
ASCENSION NO. 17

UPPER AIR DATA
21202220017
NW 30

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

TABLE 12 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEW-POINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
24000.0	418.5	-13.2	-26.2	28.2	561.6	627.5	58.4	9.0	1.000126
24500.0	410.2	-14.4	-30.6	24.6	553.1	626.2	61.6	7.7	1.000126
25000.0	402.1	-16.1	-33.1	21.0	544.8	624.7	66.0	6.6	1.000123
25500.0	394.0	-17.8	-34.7	20.1	536.1	623.4	71.3	6.0	1.000121
26000.0	386.0	-18.2	-35.5	20.2	527.5	622.0	77.0	5.5	1.000119
26500.0	378.2	-19.4	-36.4	20.4	519.0	620.7	79.4	5.6	1.000117
27000.0	370.5	-20.4	-37.3	20.5	510.6	619.4	81.5	5.6	1.000115
27500.0	363.0	-21.5	-38.1	20.6	502.4	618.1	80.3	5.5	1.000113
28000.0	355.6	-22.6	-38.9	20.7	494.3	616.7	79.2	5.5	1.000111
28500.0	348.4	-23.7	-39.8	20.9	486.4	615.4	80.8	5.4	1.000109
29000.0	341.3	-24.8	-40.7	21.0	478.6	614.0	81.5	5.3	1.000108
29500.0	334.1	-26.0	-41.6	21.2	470.8	612.6	68.3	3.5	1.000106
30000.0	327.1	-27.1	-42.6	21.3	463.2	611.1	36.9	2.3	1.000104
30500.0	320.2	-28.3	-43.5	21.5	455.7	609.6	20.7	2.1	1.000102
31000.0	313.4	-29.5	-44.5	21.7	448.3	608.1	349.3	1.6	1.000101
31500.0	307.0	-30.7	-45.4	21.8	441.1	606.5	22.4	2.4	1.000099
32000.0	300.4	-31.9	-46.4	22.0	433.9	605.1	35.7	3.1	1.000097
32500.0	294.1	-33.2	-47.2	22.7	426.9	603.5	76.0	5.0	1.000096
33000.0	287.7	-34.5	-48.1	23.4	420.0	601.9	88.1	6.8	1.000094
33500.0	281.5	-35.8	-49.0	24.1	413.2	600.2	93.0	8.6	1.000092
34000.0	275.4	-37.1	-49.9	24.8	406.5	598.6	95.6	10.5	1.000091
34500.0	269.5	-38.4	-50.8	25.5	399.9	596.9	100.6	12.3	1.000089
35000.0	263.6	-39.7	-51.8	23.0**	393.3	595.3	107.0	13.1	1.000088
35500.0	257.8	-40.9	-52.8	13.3**	386.8	593.8	110.4	11.7	1.000090
36000.0	252.1	-42.2	-53.7	3.7**	380.4	592.2	108.5	11.8	1.000089
36500.0	246.5	-43.5			373.4	590.8	107.7	11.8	1.000088
37000.0	240.9	-44.8			366.7	589.3	106.9	11.9	1.000087
37500.0	235.4	-46.1			360.1	587.8	107.3	12.1	1.000087
38000.0	230.0	-46.8			353.7	586.4	108.1	12.4	1.000086
38500.0	224.7	-47.7			347.4	584.9	108.7	12.6	1.000085
39000.0	219.7	-48.6			341.2	583.4	108.9	12.8	1.000084
39500.0	214.7	-49.5			335.1	581.9	109.1	13.1	1.000083
40000.0	209.8	-50.4			329.1	580.5	109.2	13.4	1.000082
40500.0	205.0	-51.3			323.4	579.0	109.4	13.7	1.000081
41000.0	200.3	-52.2			317.6	577.5	109.5	14.1	1.000080
41500.0	195.7	-53.2			312.0	575.7	109.7	14.5	1.000079
42000.0	191.2	-54.1			306.5	574.0	109.8	14.9	1.000078
42500.0	186.8	-55.1			301.1	572.2	109.9	15.3	1.000077
43000.0	182.5	-56.0			295.7	570.4	110.0	15.7	1.000076
43500.0	178.3	-57.0			290.5	568.5	110.1	16.1	1.000075

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4010.40 FEET MSL
30 JULY 94 1130 MDT
ASCENSION NO. 17

UPPER AIR DATA
2120220017
NM 30

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

TABLE 12 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEW-POINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
44000.0	173.4	-61.5			285.4	566.8	104.0	20.2	1.000064
44500.0	169.2	-62.7			280.1	565.2	103.4	21.4	1.000062
45000.0	165.1	-63.7			274.6	563.8	103.4	22.6	1.000061
45500.0	161.0	-64.7			269.2	562.4	102.9	21.6	1.000060
46000.0	157.1	-65.8			263.9	561.0	102.1	20.0	1.000059
46500.0	153.2	-66.8			258.7	559.6	101.1	17.1	1.000058
47000.0	149.5	-67.7			253.5	558.4	99.3	13.4	1.000056
47500.0	145.7	-68.8			247.4	558.0	96.8	9.1	1.000055
48000.0	142.1	-69.8			241.5	557.7	90.1	4.0	1.000054
48500.0	138.5	-68.5			235.8	557.3	330.8	1.5	1.000053
49000.0	135.1	-68.7			230.2	557.0	305.5	5.6	1.000051
49500.0	131.7	-69.0			224.7	556.7	303.1	9.8	1.000050
50000.0	128.4	-69.1			219.2	556.5	333.3	10.6	1.000049
50500.0	125.2	-68.1			212.8	557.8	354.5	13.6	1.000047
51000.0	122.1	-67.2			206.6	559.1	16.4	15.6	1.000046
51500.0	119.1	-66.7			200.9	559.8	36.4	18.8	1.000045
52000.0	116.1	-67.4			196.6	558.8	49.8	20.9	1.000044
52500.0	113.2	-68.1			192.4	557.8	64.1	19.1	1.000043
53000.0	110.4	-68.7			188.1	557.0	78.0	18.0	1.000042
53500.0	107.6	-69.1			183.0	557.7	84.0	14.9	1.000041
54000.0	105.0	-67.1			178.0	558.4	92.7	12.1	1.000040
54500.0	102.4	-67.3			173.3	558.9	93.4	10.8	1.000039
55000.0	99.8	-67.6			168.7	559.3	94.4	9.3	1.000038
55500.0	97.3	-67.9			164.2	560.0	91.7	8.7	1.000037
56000.0	94.9	-68.0			159.8	560.7	86.7	8.3	1.000036
56500.0	92.5	-68.2			155.5	561.4	77.9	8.1	1.000035
57000.0	90.2	-68.4			151.3	562.1	66.8	9.0	1.000034
57500.0	88.0	-68.6			147.2	562.9	59.7	10.7	1.000033
58000.0	85.8	-68.8			143.2	563.6	61.9	12.7	1.000032
58500.0	83.6	-69.0			139.4	564.3	63.3	15.2	1.000031
59000.0	81.4	-69.2			135.6	565.0	76.4	20.1	1.000030
59500.0	79.3	-69.3			132.0	565.7	84.5	25.8	1.000029
60000.0	77.3	-69.5			128.4	566.4	90.3	27.7	1.000029
60500.0	75.3	-69.7			125.0	567.1	91.9	28.2	1.000028
61000.0	74.1	-69.2			122.0	567.1	99.6	25.8	1.000027
61500.0	72.4	-69.3			119.0	567.1	102.3	20.7	1.000027
62000.0	70.7	-69.3			116.2	567.1	103.7	17.5	1.000026
62500.0	69.0	-69.1			113.3	567.3	102.1	16.6	1.000025
63000.0	67.3	-69.7			110.4	567.8	100.3	15.8	1.000025
63500.0	65.7	-69.3			107.6	568.3	97.9	16.0	1.000024

STATION ALTITUDE 4213.43 FEET MSL
TO JULY 84 1130 MDT
ASCENSION NO. 17

UPPER AIR DATA
2120220017
Pg 30

GEODETIC COORDINATES
32.98497 LAT DEG
106.49714 LON DEG

TABLE 12 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
64000.0	54.1	-50.0			104.8	568.8	95.7	16.3	1.000023
64500.0	52.6	-59.6			102.1	569.3	93.1	17.4	1.000023
65000.0	51.1	-59.2			99.5	569.8	90.5	19.3	1.000022
65500.0	59.7	-58.8			97.0	570.3	88.6	21.3	1.000022
66000.0	58.2	-58.5			94.5	570.8	87.4	22.7	1.000021
66500.0	56.8	-58.1			92.1	571.3	86.3	24.2	1.000021
67000.0	55.5	-57.7			89.7	571.8	86.7	25.2	1.000020
67500.0	54.2	-57.4			87.5	572.2	89.1	25.6	1.000019
68000.0	52.9	-57.4			85.4	572.2	91.5	26.0	1.000019
68500.0	51.6	-57.4			83.4	572.2	92.9	26.5	1.000019
69000.0	50.4	-57.4			81.4	572.2	94.1	27.0	1.000018
69500.0	49.2	-56.7			79.2	573.1			1.000018
70000.0	48.1	-55.7			77.1	574.4			1.000017
70500.0	46.9	-54.8			74.9	575.7			1.000017

STATION ALTITUDE 4010.40 FEET MSL
30 JULY 84
ASCENSION NO. 17 1130 MDT

MANDATORY LEVELS
2120220017
NM 30
TABLE 13

GEODETIC COORDINATES
32.88497 LAT DEG
106.49714 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS
850.0	5114.	22.9	9.0	41.	9999.0	999*.0XX
800.0	6938.	19.9	7.2	44.	222.3	1.5
750.0	8850.	15.2	6.0	54.	246.4	3.8
700.0	10854.	10.6	4.9	68.	104.0	6.4
650.0	12966.	6.1	-1.7	57.	119.5	7.7
600.0	14699.	.4	-3.5	75.	125.8	14.5
550.0	16974.	-3.2	-10.4	57.	143.9	12.8
500.0	19444.	-4.1	-25.5	17.	285.3	3.4
450.0	22145.	-9.4	-20.1	41.	45.4	7.8
400.0	25092.	-16.4	-34.0	20.	67.2	6.4
350.0	28343.	-23.4	-39.6	21.	80.3	5.4
300.0	31980.	-32.0	-46.5	22.	56.9	3.5
250.0	36111.	-42.5			10[illegible].5	11.[illegible]
200.0	40939.	-53.5			[illegible]2.0	14.7
175.0	43710.	-61.0			13[illegible].[illegible]	19.[illegible]
150.0	46501.	-67.7			9[illegible].[illegible]	14.[illegible]
125.0	50387.	-68.1			35[illegible].[illegible]	13.[illegible]
100.0	54793.	-67.1			94.[illegible]	[illegible].7
80.0	59263.	-62.3			83.[illegible]	25.0
70.0	61980.	-61.3			103.2	17.2
60.0	65136.	-58.9			89.2	20.[illegible]
50.0	68909.	-57.4			94.4	27.2

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN TH[illegible] INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL
20 JULY 84 1211 MDT
ASCENSION NO. 97

SIGNIFICANT LEVEL DATA
2120030097
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 14

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL.HUM. PERCENT
959.2	4051.0	32.2	11.9	29.0
932.9	4296.0	29.5	12.0	34.0
950.0	5070.8	26.6	11.5	39.0
762.6	7438.8	19.6	5.6	49.0
725.9	9544.2	13.0	5.9	62.0
700.0	10546.1	11.3	2.1	53.0
681.2	11291.7	9.6	-2.0	44.0
623.2	13692.4	2.9	-1.5	73.0
604.7	14492.5	.7	-4.5	68.0
578.0	15680.9	-1.9	-3.5	89.0
554.3	16774.4	-3.5	-5.3	81.0
543.4	17290.8	-3.9	-11.4	56.0
534.8	17705.0	-4.0	-15.6	40.0
518.0	18531.6	-5.1	-20.7	28.0
500.0	19446.8	-4.3	-21.8	24.0
400.0	25093.6	-17.1	-32.0	26.0
364.2	27384.7	-22.1	-34.9	30.0
300.0	31979.5	-32.8	-45.3	27.0
267.3	34619.0	-39.3	-50.5	29.0
250.0	36116.5	-43.0		
200.0	40949.5	-54.4		
174.7	43760.4	-61.3		
150.0	46835.9	-67.1		
139.6	48254.7	-70.3		
131.0	49500.0	-70.5		
127.2	50078.8	-68.7		
117.6	51630.3	-58.3		
109.8	52980.7	-70.7		
100.0	54826.1	-67.1		
[illegible]	56596.9	-66.7		
[illegible]	58716.0	-65.9		
[illegible]	61986.8	-62.1		
[illegible]	65191.9	-59.3		
[illegible]	66557.4	-56.3		
[illegible]	68977.4	-55.5		
[illegible]	77637.9	-54.4		

STATION ALTITUDE 4051.0 FEET MSL
30 JULY 85
ASCENSION NO. 97 1211 MDT

UPPER AIR DATA
312003097
JALLEN
TABLE 15

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DE-POINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4051.0	550.2	32.2	11.9	29.0	998.2	682.8	220.0	5.1	1.000279
4500.0	566.8	28.7	11.9	35.3	994.2	679.0	206.4	5.0	1.000280
5000.0	582.1	26.9	11.6	38.5	983.4	676.8	191.6	5.2	1.000277
5500.0	597.4	25.3	11.1	40.8	971.5	675.1	178.8	5.7	1.000273
6000.0	622.9	23.9	10.5	42.9	959.6	673.4	168.8	6.2	1.000268
6500.0	638.7	22.4	9.9	45.0	947.8	671.5	159.9	6.8	1.000264
7000.0	654.7	20.9	9.2	47.1	936.2	669.9	148.8	3.4	1.000260
7500.0	670.9	19.4	8.5	49.4	924.8	668.2	136.6	1.9	1.000255
8000.0	687.1	17.8	8.0	52.5	913.5	666.3	85.9	.9	1.000252
8500.0	703.5	16.3	7.4	55.6	902.3	664.5	25.0	1.2	1.000246
9000.0	720.0	14.7	6.7	58.6	891.2	662.6	5.0	2.2	1.000244
9500.0	737.0	13.1	6.0	61.7	880.4	660.8	1.2	3.0	1.000239
10000.0	754.0	12.2	4.2	57.9	867.8	659.6	2.5	3.6	1.000232
10500.0	771.2	11.4	2.3	53.4	855.2	658.4	6.6	3.8	1.000224
11000.0	785.5	10.3	-.4	47.5	843.5	656.9	72.6	2.0	1.000216
11500.0	796.0	9.0	-1.8	46.5	832.0	655.6	133.4	3.6	1.000211
12000.0	813.5	7.6	-1.4	52.6	820.7	653.8	152.3	6.2	1.000209
12500.0	831.4	6.2	-1.2	58.6	809.6	652.2	164.0	6.2	1.000207
13000.0	839.4	4.8	-1.3	64.6	798.7	650.5	168.6	6.5	1.000205
13500.0	827.7	3.4	-1.4	70.7	787.9	649.0	162.2	7.2	1.000203
14000.0	816.0	2.1	-2.6	71.1	777.4	647.3	152.8	8.8	1.000198
14500.0	804.5	.7	-4.5	68.1	767.0	645.6	145.8	10.7	1.000193
15000.0	793.2	-.4	-3.9	77.0	755.4	644.3	140.4	11.6	1.000192
15500.0	782.0	-1.5	-3.6	85.8	744.1	643.1	138.3	12.2	1.000190
16000.0	771.0	-2.4	-4.3	86.7	732.4	642.0	139.0	12.5	1.000190
16500.0	760.2	-3.1	-5.6	83.0	720.6	641.1	149.8	11.9	1.000192
17000.0	749.5	-3.7	-8.1	70.1	708.8	640.2	161.0	11.0	1.000195
17500.0	739.0	-4.0	-13.3	47.9	696.5	639.7	174.2	8.6	1.000197
18000.0	728.7	-4.4	-17.8	35.7	684.6	639.0	193.5	6.1	1.000198
18500.0	718.6	-5.1	-20.5	28.5	673.3	638.2	231.9	3.8	1.000196
19000.0	708.7	-6.7	-21.2	26.0	659.6	638.6	304.9	2.5	1.000193
19500.0	698.9	-8.6	-21.9	24.8	646.3	638.9	356.2	4.7	1.000196
20000.0	689.3	-9.6	-22.5	24.2	636.4	637.5	15.1	6.9	1.000197
20500.0	679.8	-8.7	-23.7	24.4	626.6	636.2	22.5	8.0	1.000194
21000.0	670.4	-7.9	-24.6	24.6	617.0	634.8	27.0	9.1	1.000194
21500.0	661.2	-9.0	-25.4	24.7	607.5	633.4	31.9	8.7	1.000189
22000.0	652.0	-10.1	-26.3	24.9	598.2	632.0	35.9	9.5	1.000187
22500.0	643.0	-11.2	-27.2	25.1	589.1	630.7	39.3	10.3	1.000185
23000.0	634.5	-12.4	-28.2	25.3	580.1	629.3	41.7	10.9	1.000183
23500.0	626.0	-13.5	-29.1	25.4	571.2	627.9	43.5	11.4	1.000180

UPPER AIR DATA

STATION ALTITUDE 4051.00 FEET MSL
30 JULY 84 1211 MDT
ASCENSION NO. 97

21200330397
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 15 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEW-POINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
24000.0	417.7	-14.6	-30.0	25.6	562.5	626.5	46.7	10.4	1.000126
24500.0	409.5	-15.8	-30.9	25.5	554.0	625.2	49.9	9.1	1.000126
25000.0	401.5	-16.9	-31.8	26.0	545.5	623.8	54.5	7.4	1.000124
25500.0	393.4	-18.0	-32.5	26.7	536.9	622.4	60.7	6.4	1.000122
26000.0	385.4	-19.1	-33.1	27.6	528.3	621.1	65.1	6.4	1.000120
26500.0	377.6	-20.2	-33.7	28.5	519.9	619.7	67.4	6.8	1.000118
27000.0	370.0	-21.3	-34.4	29.3	511.5	618.4	68.5	7.2	1.000116
27500.0	362.4	-22.4	-35.2	29.9	503.3	617.0	67.6	7.4	1.000114
28000.0	354.9	-23.5	-36.3	29.6	495.1	615.6	67.3	7.5	1.000112
28500.0	347.5	-24.7	-37.4	29.3	487.1	614.1	67.9	7.6	1.000110
29000.0	340.2	-25.9	-38.6	28.9	479.1	612.7	65.6	7.1	1.000108
29500.0	333.1	-27.0	-39.7	28.6	471.4	611.2	58.7	6.3	1.000106
30000.0	326.1	-28.2	-40.8	28.3	463.7	609.8	44.3	4.7	1.000104
30500.0	319.3	-29.4	-42.0	28.0	456.2	608.3	11.4	3.4	1.000103
31000.0	312.7	-30.5	-43.1	27.6	448.9	606.9	2.0	2.8	1.000101
31500.0	306.1	-31.7	-44.3	27.3	441.6	605.4	.8	2.7	1.000099
32000.0	299.7	-32.9	-45.4	27.0	434.5	603.9	57.1	2.5	1.000097
32500.0	293.2	-34.1	-46.3	27.4	427.3	602.4	80.5	4.7	1.000096
33000.0	286.9	-35.3	-47.3	27.8	420.2	600.8	88.4	5.0	1.000094
33500.0	280.7	-36.5	-48.3	28.2	413.3	599.3	93.9	5.8	1.000093
34000.0	274.6	-37.6	-49.3	28.5	406.4	597.7	97.4	6.8	1.000091
34500.0	268.7	-39.0	-50.2	28.9	399.7	596.1	103.3	7.5	1.000089
35000.0	262.8	-40.2	-53.8	21.6**	393.0	594.6	112.3	8.2	1.000086
35500.0	257.0	-41.5	-59.5	11.9**	386.4	593.0	116.8	8.8	1.000086
36000.0	251.3	-42.7	-72.4	2.3**	379.9	591.4	119.7	9.1	1.000085
36500.0	245.6	-43.9			373.2	589.9	116.4	9.5	1.000083
37000.0	240.0	-45.1			366.6	588.3	111.2	10.1	1.000082
37500.0	234.5	-46.3			360.1	586.8	110.4	10.3	1.000080
38000.0	229.2	-47.4			353.7	585.3	111.6	10.2	1.000079
38500.0	223.9	-48.6			347.5	583.8	112.1	10.4	1.000077
39000.0	218.9	-49.8			341.3	582.2	112.1	10.5	1.000076
39500.0	213.8	-51.0			335.3	580.7	110.7	12.0	1.000075
40000.0	209.0	-52.2			329.4	579.1	108.6	13.4	1.000073
40500.0	204.2	-53.3			323.6	577.6	109.1	15.4	1.000072
41000.0	199.5	-54.5			317.9	576.0	111.1	17.4	1.000071
41500.0	194.9	-55.8			312.1	574.4	111.2	19.1	1.000070
42000.0	190.1	-57.2			306.4	572.8	109.5	20.4	1.000068
42500.0	185.5	-58.2			300.8	571.2	105.9	21.1	1.000067
43000.0	181.2	-59.4			295.4	569.5	100.4	21.2	1.000066
43500.0	176.8	-60.7			290.0	567.9	96.9	21.1	1.000065

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4[illegible] FEET MSL
30 JULY 94
ASCENSION NO. 97 1211 MDT

UPPER AIR DATA
[illegible]
JALLEN
TABLE 15 Cont'd

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	DEW-POINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
44000.0	172.6	-61.6			284.5	566.4	95.4	20.5	1.000063
44500.0	168.4	-62.7			278.8	565.2	93.8	19.6	1.000062
45000.0	164.3	-63.6			273.2	563.9	92.1	18.9	1.000061
45500.0	160.3	-64.6			267.7	562.5	88.7	17.7	1.000060
46000.0	156.3	-65.5			262.3	561.4	83.3	16.4	1.000058
46500.0	152.5	-66.5			257.1	560.1	78.4	15.2	1.000057
47000.0	148.6	-67.5			252.0	558.7	74.1	14.0	1.000056
47500.0	145.0	-68.6			247.0	557.2	69.9	11.9	1.000055
48000.0	141.4	-69.7			242.2	555.6	64.8	9.3	1.000054
48500.0	137.9	-70.3			236.8	554.8	42.4	6.8	1.000053
49000.0	134.4	-70.4			230.9	554.7	3.2	6.7	1.000051
49500.0	131.0	-70.5			225.2	554.5	351.9	9.9	1.000050
50000.0	127.7	-69.9			217.9	556.7	353.0	13.7	1.000049
50500.0	124.5	-68.6			212.1	557.2	3.6	16.2	1.000047
51000.0	121.4	-68.5			206.6	557.4	22.9	18.7	1.000046
51500.0	118.4	-69.0			201.3	557.5	39.5	20.4	1.000045
52000.0	115.4	-69.0			196.9	556.7	56.7	21.7	1.000044
52500.0	112.5	-69.5			192.8	555.5	68.4	21.3	1.000043
53000.0	109.7	-70.2			188.7	554.4	78.7	18.3	1.000042
53500.0	106.9	-69.7			183.1	555.7	88.4	15.2	1.000041
54000.0	104.3	-68.7			177.7	557.0	97.1	11.5	1.000040
54500.0	101.7	-67.7			172.4	558.4	99.9	9.6	1.000038
55000.0	99.1	-67.1			167.6	559.3	92.2	9.4	1.000037
55500.0	96.7	-66.9			163.1	559.4	81.7	9.5	1.000036
56000.0	94.3	-66.5			159.2	559.6	70.0	10.1	1.000035
56500.0	91.9	-65.7			155.2	559.7	62.2	10.9	1.000035
57000.0	89.7	-66.5			151.2	560.0	56.9	11.8	1.000034
57500.0	87.5	-66.4			147.3	560.2	54.5	13.0	1.000033
58000.0	85.3	-66.1			143.6	560.5	54.2	14.5	1.000032
58500.0	83.2	-65.0			139.9	560.7	61.7	17.0	1.000031
59000.0	81.1	-65.5			136.2	561.3	71.4	20.7	1.000030
59500.0	79.1	-65.0			132.5	562.1	51.5	23.9	1.000030
60000.0	77.2	-64.4			128.9	562.9	92.9	27.2	1.000029
60500.0	75.[illegible]	-63.[illegible]			125.4	563.6	96.5	27.2	1.000028
61000.0	73.5	-63.2			122.0	564.4	103.5	26.5	1.000027
61500.0	71.7	-62.7			118.7	565.2	105.5	23.7	1.000026
62000.0	70.0	-62.3			115.5	566.0	102.5	19.7	1.000026
62500.0	68.3	-61.7			112.5	566.5	95.3	16.6	1.000025
63000.0	66.6	-61.0			109.5	567.1	93.1	14.9	1.000024
63500.0	65.0	-6[illegible].5			106.7	567.7	96.7	14.5	1.000024

STATION ALTITUDE 4051.00 FEET MSL
TO JULY 84 1211 MDT
ASCENSION NO. 97

UPPER AIR DATA
2170343097
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 15 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
64000.0	53.5	-60.3			103.9	568.3	91.9	15.6	1.000023
64500.0	52.0	-59.9			101.2	568.9	91.9	17.1	1.000023
65000.0	50.5	-59.5			98.6	569.5	90.2	19.0	1.000022
65500.0	59.0	-58.6			95.8	570.6	88.6	20.8	1.000021
66000.0	57.6	-57.5			93.1	572.1	87.1	22.5	1.000021
66500.0	56.3	-56.4			90.4	573.5	86.2	23.7	1.000020
67000.0	54.9	-56.2			88.2	573.9	86.4	24.1	1.000020
67500.0	53.6	-56.0			86.0	574.1	86.4	24.5	1.000019
68000.0	52.4	-55.8			84.0	574.3	85.5	25.1	1.000019
68500.0	51.1	-55.7			81.9	574.5	84.7	25.8	1.000018
69000.0	49.9	-55.5			79.9	574.8	85.1	27.1	1.000018
69500.0	48.8	-55.4			78.0	574.9	85.4	28.3	1.000017
70000.0	47.6	-55.3			76.2	575.1	88.4	28.7	1.000017
70500.0	46.5	-55.1			74.3	575.2	91.5	29.2	1.000017
71000.0	45.4	-55.0			72.6	575.4	95.5	28.5	1.000016
71500.0	44.4	-54.9			70.8	575.5	100.1	27.4	1.000016
72000.0	43.3	-54.8			69.1	575.7			1.000015
72500.0	42.3	-54.7			67.5	575.8			1.000015
73000.0	41.3	-54.6			65.9	576.0			1.000015
73500.0	40.4	-54.4			64.3	576.2			1.000014

STATION ALTITUDE [illegible] FEET MSL
TO JULY 94 1211 MDT
ASCENSION NO. 97

MANDATORY LEVELS
[illegible]
[illegible]
TABLE 16

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL.HUM.	WIND DATA	
		AIR	DEW-POINT	PERCENT	DIRECTION	SPEED
MILLIBARS	FEET	DEGREES CENTIGRADE			DEGREES(TN)	KNOTS
[illegible]	[illegible]	26.6	11.5	39.	189.7	5.2
[illegible]	[illegible]	21.5	9.5	46.	151.3	4.0
750.0	8439.	15.9	7.2	56.	17.2	1.5
[illegible]	10836.	11.3	2.1	53.	9.0	13.5
650.0	12551.	6.1	-1.7	59.	165.4	6.2
[illegible]	14482.	.7	-4.3	72.	143.7	11.1
[illegible]	16956.	-3.7	-8.1	71.	160.4	11.2
[illegible]	19420.	-4.3	-21.8	24.	352.7	4.5
450.0	22114.	-10.3	-26.6	25.	36.9	9.7
400.0	25052.	-17.1	-32.0	26.	55.6	7.1
350.0	28293.	-24.3	-37.0	29.	67.7	7.5
[illegible]	31917.	-32.8	-45.3	27.	54.2	2.4
250.0	36039.	-43.0			119.1	9.1
200.0	40852.	-54.4			111.0	17.1
175.0	43615.	-61.2			96.3	20.6
150.0	46711.	-67.1			75.7	14.4
125.0	50250.	-68.6			359.2	10.0
100.0	54659.	-67.1			95.3	9.5
[illegible]	59091.	-65.3			75.5	22.7
70.0	61779.	-62.1			102.8	20.3
60.0	64926.	-59.3			89.5	19.5
50.0	68720.	-55.5			85.0	26.9

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL
TO JULY 84 1444 MDT
ASCENSION NO. 99

SIGNIFICANT LEVEL DATA
2120030098
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 17

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT
878.4	4051.0	33.2	11.1	26.0
875.7	4155.4	31.1	10.4	28.0
850.0	5015.4	28.9	10.6	32.0
800.0	6770.6	23.5	8.0	37.0
760.0	7494.0	21.3	5.8	39.0
700.0	10528.5	12.6	3.6	54.0
636.1	13138.0	5.6	-1.1	63.0
581.9	15508.0	-.7	-2.4	88.0
563.9	16333.8	-1.4	-4.4	80.0
547.3	17115.1	-3.1	-12.3	49.0
513.7	18757.5	-5.5	-21.5	27.0
500.0	19454.7	-5.7	-21.7	27.0
449.3	22186.0	-10.6	-25.9	27.0
433.7	23078.1	-12.0	-27.1	27.0
400.0	25094.3	-17.2	-31.7	27.0
300.0	31975.5	-33.0	-45.2	26.0
268.3	34530.1	-39.0	-49.6	31.0
250.0	36113.0	-42.8		
242.2	36815.7	-43.9		
200.0	40949.4	-54.9		
171.2	44167.4	-62.6		
150.0	46823.2	-67.6		
136.7	48661.5	-68.7		
128.9	49824.3	-67.8		
117.7	51610.9	-71.6		
110.5	52842.4	-70.9		
100.0	54809.8	-67.6		
78.9	59546.3	-65.2		
70.0	61973.4	-61.7		
50.0	68929.8	-57.2		
42.7	72241.7	-55.9		
38.1	74637.0	-56.7		

STATION ALTITUDE 4061.00 FEET MSL
30 JULY 84 1444 MDT
ASCENSION NO. 95

UPPER AIR DATA
21[illegible]3098
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 18

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4061.0	679.4	33.2	11.1	26.8	993.2	683.5	210.0	9.9	1.000275
4500.0	655.1	30.2	10.5	29.6	987.9	680.4	202.9	8.3	1.000273
5000.0	630.4	28.9	10.6	31.9	975.2	679.0	191.7	6.6	1.000270
5500.0	635.9	27.4	9.9	33.4	963.5	677.2	173.1	5.4	1.000266
6000.0	621.6	25.9	9.2	34.8	952.0	675.5	152.4	5.1	1.000261
6500.0	607.5	24.3	8.4	36.2	940.7	673.7	140.2	5.4	1.000257
7000.0	793.6	22.8	7.6	37.6	929.5	671.9	129.0	7.0	1.000252
7500.0	779.9	21.3	6.9	39.0	918.3	670.1	127.5	7.7	1.000248
8000.0	766.1	19.8	6.4	41.5	906.5	668.4	120.5	5.0	1.000244
8500.0	752.5	18.4	5.9	44.0	894.9	666.8	124.3	4.5	1.000241
9000.0	739.0	17.0	5.4	46.4	883.5	665.1	126.5	5.1	1.000237
9500.0	726.2	15.5	4.9	48.9	872.3	663.4	115.7	4.5	1.000234
10000.0	713.3	14.1	4.2	51.4	861.2	661.7	105.7	4.0	1.000230
10500.0	700.7	12.7	3.6	53.9	850.4	660.1	97.0	3.6	1.000226
11000.0	688.0	11.3	2.8	55.6	839.1	658.4	98.5	3.3	1.000222
11500.0	675.5	9.9	1.9	57.4	828.0	656.7	105.1	3.0	1.000218
12000.0	663.2	8.5	1.0	59.1	817.1	655.1	120.4	3.1	1.000213
12500.0	651.2	7.2	.1	60.5	806.4	653.4	144.3	3.3	1.000209
13000.0	639.7	5.5	-.6	62.5	795.9	651.8	166.6	4.1	1.000205
13500.0	627.5	4.5	-1.1	66.8	784.7	650.2	179.0	4.5	1.000202
14000.0	615.8	3.2	-1.3	72.1	773.7	648.7	183.6	5.5	1.000200
14500.0	604.4	1.9	-1.6	77.4	762.9	647.2	176.7	5.4	1.000197
15000.0	593.1	.8	-2.0	82.6	752.2	645.7	161.2	5.4	1.000194
15500.0	582.1	-.7	-2.4	87.9	741.7	644.	141.7	5.9	1.000191
16000.0	571.1	-1.1	-3.6	83.2	729.1	643.5	130.1	6.4	1.000186
16500.0	560.3	-1.5	-5.9	73.4	717.3	642.0	121.4	6.9	1.000180
17000.0	549.7	-2.8	-10.9	53.8	707.2	641.1	122.3	5.6	1.000171
17500.0	539.2	-3.7	-14.2	43.8	696.1	640.0	124.0	4.2	1.000166
18000.0	528.9	-4.4	-16.8	37.1	684.8	639.0	104.6	3.2	1.000161
18500.0	518.8	-5.1	-19.5	30.4	673.7	638.1	75.1	2.9	1.000157
19000.0	508.9	-5.7	-21.5	27.0	662.9	637.3	58.7	5.2	1.000153
19500.0	499.1	-6.3	-21.7	27.0	649.8	637.3	51.9	7.7	1.000150
20000.0	489.4	-6.7	-22.5	27.0	639.4	636.2	46.8	8.6	1.000146
20500.0	480.0	-7.2	-23.3	27.0	629.1	635.1	47.7	9.6	1.000145
21000.0	470.7	-8.5	-24.1	27.0	619.0	634.0	41.9	9.3	1.000142
21500.0	461.5	-9.4	-24.8	27.0	609.1	632.9	41.3	8.9	1.000140
22000.0	452.5	-10.3	-25.6	27.0	599.4	631.9	45.9	8.9	1.000136
22500.0	443.7	-11.1	-26.3	27.0	589.5	630.8	52.5	9.0	1.000135
23000.0	435.0	-11.9	-27.0	27.0	579.7	629.5	54.2	8.9	1.000133
23500.0	426.4	-12.7	-25.1	27.0	570.9	628.4	51.8	8.6	1.000131

STATION ALTITUDE 4051.00 FEET MSL
20 JULY 84 1444 MDT
ASCENSION NO. [illegible]

UPPER AIR DATA
[illegible]
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 18 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
24000.0	418.0	-14.6	-29.2	27.0	562.4	626.8	45.1	8.1	1.000126
24500.0	[illegible]	-15.7	-30.3	27.0	554.0	625.3	42.4	7.5	1.000126
25000.0	401.5	-17.0	-31.4	27.0	545.7	623.7	[illegible]	6.7	1.000124
25500.0	393.3	-18.1	-32.5	27.1	537.0	622.2	41.5	5.7	1.000122
26000.0	385.1	-19.3	-33.4	27.1	525.3	620.8	44.4	4.8	1.000120
26500.0	377.2	-20.4	-34.4	[illegible]	519.7	619.4	47.6	4.3	1.000118
27000.0	369.4	-21.6	-35.4	27.3	511.3	618.0	50.0	[illegible]	1.000116
27500.0	361.7	-22.7	-36.4	27.3	503.1	616.5	[illegible]	2.7	1.000114
28000.0	354.2	-23.9	-37.5	27.4	494.9	615.2	36.4	1.9	1.000112
28500.0	346.9	-25.0	-38.3	27.5	486.9	613.7	344.9	1.9	1.000110
29000.0	339.7	-26.2	[illegible]	27.6	479.1	612.3	[illegible]	2.9	[illegible]
29500.0	332.7	-27.3	-40.3	27.6	471.4	610.9	[illegible]	[illegible]	[illegible]
30000.0	[illegible]	-28.5	-41.3	27.7	463.5	609.5	352.7	[illegible]	1.000104
30500.0	[illegible]	-29.6	[illegible]	27.8	456.4	608.0	6.4	6.1	1.000103
31000.0	[illegible]	-30.6	-43.3	27.9	[illegible]	606.6	[illegible]	[illegible]	[illegible]
31500.0	[illegible]	-31.9	-44.2	27.9	441.9	605.1	[illegible]	[illegible]	[illegible]
32000.0	[illegible]	-33.1	-45.2	28.0	[illegible]	603.7	[illegible]	[illegible]	[illegible]
32500.0	[illegible]	[illegible]	-46.1	28.6	427.5	602.2	[illegible]	[illegible]	[illegible]
33000.0	286.9	-35.4	-46.9	29.2	420.1	600.7	[illegible]	[illegible]	[illegible]
33500.0	[illegible]	[illegible]	-47.8	29.8	413.2	599.2	[illegible]	[illegible]	[illegible]
34000.0	[illegible]	[illegible]	-48.7	[illegible]	[illegible]	597.7	[illegible]	[illegible]	[illegible]
34500.0	[illegible]	[illegible]	[illegible]	31.0	399.5	596.2	[illegible]	[illegible]	[illegible]
35000.0	262.7	-40.1	-53.5	21.6**	392.8	594.7	[illegible]	[illegible]	[illegible]
35500.0	[illegible]	-41.3	[illegible]	12.0**	386.1	593.2	[illegible]	[illegible]	[illegible]
36000.0	[illegible]	[illegible]	[illegible]	2.2**	379.5	591.5	[illegible]	[illegible]	[illegible]
36500.0	[illegible]	[illegible]			372.5	590.5	[illegible]	[illegible]	[illegible]
37000.0	[illegible]	-44.4			[illegible]	589.2	[illegible]	[illegible]	[illegible]
37500.0	[illegible]	[illegible]			359.4	587.5	[illegible]	[illegible]	[illegible]
38000.0	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
38500.0	[illegible]	[illegible]			[illegible]	584.1	[illegible]	[illegible]	[illegible]
39000.0	[illegible]	[illegible]			341.3	582.3	[illegible]	[illegible]	[illegible]
39500.0	[illegible]	[illegible]			335.5	[illegible]	[illegible]	[illegible]	[illegible]
40000.0	[illegible]	[illegible]			[illegible]	578.9	[illegible]	[illegible]	[illegible]
40500.0	[illegible]	[illegible]			[illegible]	577.1	[illegible]	[illegible]	[illegible]
41000.0	[illegible]	[illegible]			[illegible]	575.4	[illegible]	[illegible]	[illegible]
41500.0	[illegible]	[illegible]			312.7	573.6	[illegible]	[illegible]	[illegible]
42000.0	[illegible]	[illegible]			[illegible]	572.2	[illegible]	[illegible]	[illegible]
42500.0	[illegible]	[illegible]			301.7	[illegible]	[illegible]	[illegible]	[illegible]
43000.0	[illegible]	[illegible]			[illegible]	569.3	[illegible]	17.4	[illegible]
43500.0	[illegible]	[illegible]			290.3	[illegible]	[illegible]	17.6	[illegible]

** [illegible] ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN [illegible] INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL
30 JULY 84 1444 MDT
ASCENSION NO. 98

UPPER AIR DATA
2120030098
JALLEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 18 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
44000.0	172.6	-62.2			285.0	565.8	78.3	16.8	1.000063
44500.0	168.4	-63.2			279.4	564.5	77.0	15.8	1.000062
45000.0	164.2	-64.2			273.8	563.2	74.8	13.9	1.000061
45500.0	160.2	-65.1			268.3	561.9	72.0	12.0	1.000060
46000.0	156.3	-66.1			262.9	560.6	69.1	9.5	1.000059
46500.0	152.4	-67.0			257.6	559.4	62.6	6.9	1.000057
47000.0	148.7	-67.7			252.1	558.4	26.6	4.5	1.000056
47500.0	145.0	-68.0			246.2	558.3	336.6	5.3	1.000055
48000.0	141.3	-68.3			240.4	557.6	333.2	8.0	1.000054
48500.0	137.8	-68.6			234.7	557.2	331.8	10.6	1.000052
49000.0	134.4	-68.4			228.7	557.4	348.3	12.3	1.000051
49500.0	131.0	-68.1			222.6	557.9	4.9	14.9	1.000050
50000.0	127.8	-68.2			217.1	557.8	19.0	17.7	1.000048
50500.0	124.5	-69.2			212.8	556.3	31.3	20.9	1.000047
51000.0	121.4	-70.3			208.5	554.9	40.1	22.6	1.000046
51500.0	118.4	-71.4			204.3	553.4	49.5	19.8	1.000046
52000.0	115.4	-71.4			199.2	553.4	61.3	17.6	1.000044
52500.0	112.5	-71.1			193.9	553.8	71.7	14.4	1.000043
53000.0	109.6	-70.6			188.6	554.4	87.3	11.9	1.000042
53500.0	106.9	-69.8			183.1	555.5	88.1	11.6	1.000041
54000.0	104.2	-69.0			177.8	556.7	86.7	11.4	1.000040
54500.0	101.6	-66.1			172.6	557.6	82.4	11.5	1.000038
55000.0	99.1	-67.5			167.8	558.7	78.2	11.8	1.000037
55500.0	96.6	-67.3			163.4	559.0	71.7	12.5	1.000036
56000.0	94.2	-67.0			159.2	559.4	66.1	13.4	1.000035
56500.0	91.9	-66.7			155.1	559.7	61.7	14.1	1.000035
57000.0	89.6	-66.5			151.1	560.0	57.8	14.8	1.000034
57500.0	87.4	-66.2			147.2	560.4	56.1	16.1	1.000033
58000.0	85.2	-66.0			143.3	560.7	54.7	17.4	1.000032
58500.0	83.1	-65.7			139.6	561.1	62.5	18.2	1.000031
59000.0	81.1	-65.5			136.0	561.4	71.5	19.3	1.000030
59500.0	79.1	-65.2			132.5	561.8	82.1	18.8	1.000030
60000.0	77.2	-64.5			128.8	562.7	94.5	18.2	1.000029
60500.0	75.3	-63.8			125.3	563.6	100.9	17.0	1.000028
61000.0	73.4	-63.1			121.8	564.5	104.9	14.3	1.000027
61500.0	71.7	-62.4			118.4	565.6	106.2	12.0	1.000026
62000.0	69.9	-61.7			115.2	566.5	97.7	11.3	1.000026
62500.0	68.2	-61.4			112.2	567.0	88.4	10.9	1.000025
63000.0	66.6	-61.0			109.4	567.4	91.6	12.1	1.000024
63500.0	65.0	-60.7			106.6	567.8	94.8	13.5	1.000024

STATION ALTITUDE 4051.00 FEET MSL
TO JULY 84 1444 MDT
ASCENSION NO. 85

UPPER AIR DATA
31.0013099
JALEN

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

TABLE 18 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
64000.0	57.0	-60.4			103.6	568.3	94.4	15.9	1.000025
64500.0	51.7	-58.1			101.3	568.7	93.1	19.0	1.000023
65000.0	50.4	-59.7			98.7	569.1	92.7	21.9	1.000022
65500.0	59.2	-59.4			96.2	569.5	92.8	24.3	1.000021
66000.0	57.8	-59.1			93.8	570.0	93.2	26.8	1.000021
66500.0	56.2	-58.8			91.4	570.4	94.8	27.2	1.000020
67000.0	54.7	-58.4			89.1	570.8	96.6	27.2	1.000020
67500.0	53.1	-58.1			86.9	571.3	96.2	27.0	1.000019
68000.0	52.3	-57.8			84.6	571.7	93.0	26.4	1.000019
68500.0	51.1	-57.5			82.5	572.1	89.6	25.9	1.000018
69000.0	49.9	-57.2			80.4	572.5	87.0	25.9	1.000017
69500.0	48.7	-56.9			78.4	572.9	84.3	25.9	1.000017
70000.0	47.5	-56.7			76.5	573.2	81.9	25.7	1.000017
70500.0	46.4	-56.4			74.6	573.6	80.5	25.9	1.000017
71000.0	45.2	-56.1			72.7	573.9	79.7	25.1	1.000016
71500.0	44.2	-55.9			70.9	574.2	79.2	25.7	1.000016
72000.0	43.2	-55.6			69.2	574.6	78.9	26.4	1.000015
72500.0	42.2	-55.6			67.5	574.6			1.000015
73000.0	41.2	-55.9			66.0	574.2			1.000015
73500.0	40.2	-56.1			64.4	573.9			1.000014
74000.0	39.2	-56.4			62.9	573.6			1.000014
74500.0	38.3	-56.6			61.7	573.2			1.000014

STATION ALTITUDE [illegible] FEET MSL
30 JULY [illegible] [illegible] MDT
ASCENSION NO. [illegible]

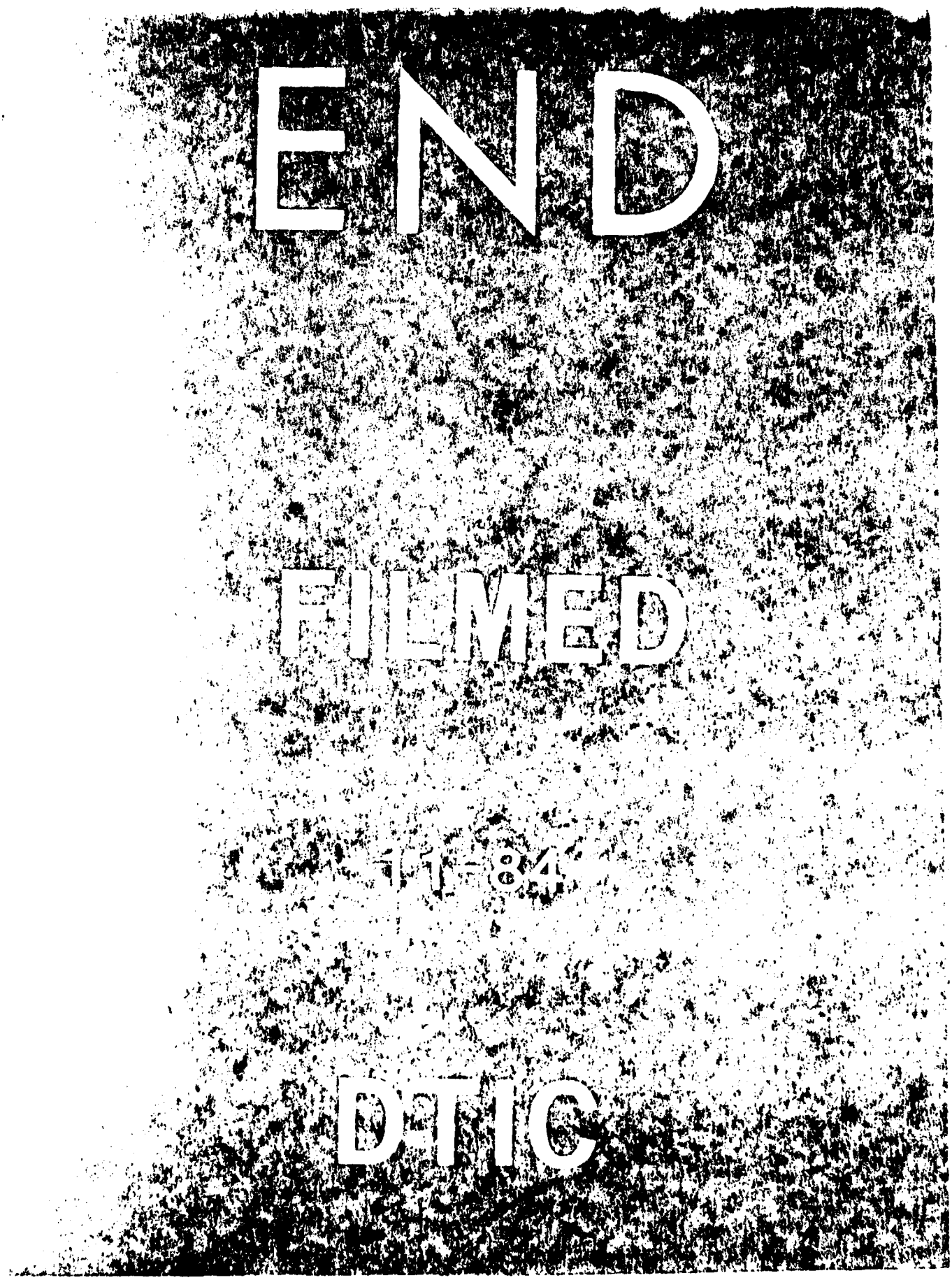
MANDATORY LEVELS
[illegible]
JALLEN

TABLE 19

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

PRESSURE	GEOPOTENTIAL	TEMPERATURE AIR	TEMPERATURE DEWPOINT	REL.HUM.	WIND DATA DIRECTION	WIND DATA SPEED
MILLIBARS	FEET	DEGREES CENTIGRADE	DEGREES CENTIGRADE	PERCENT	DEGREES(TN)	KNOTS
850.0	5012.	28.9	10.6	32.	190.4	6.6
800.0	6765.	23.5	8.0	37.	133.7	6.1
750.0	8597.	15.1	5.9	44.	124.6	4.5
700.0	10510.	12.6	3.6	54.	97.0	3.6
650.0	12542.	7.0	.0	61.	146.9	3.3
600.0	14657.	1.4	-1.8	79.	174.0	5.4
550.0	16966.	-2.8	-10.8	54.	122.9	5.6
500.0	19429.	-5.7	-21.7	27.	52.4	7.4
450.0	22114.	-10.5	-25.8	27.	47.7	8.8
400.0	25053.	-17.2	-31.7	27.	39.5	6.6
350.0	28292.	-24.5	-37.9	27.	2.1	1.7
300.0	31913.	-33.9	-45.2	28.	24.5	5.4
250.0	36035.	-42.8			77.1	6.7
200.0	40851.	-54.9			80.1	15.5
175.0	43410.	-61.5			78.9	17.2
150.0	46698.	-67.6			[illegible]	[illegible]
125.0	50288.	-69.1			29.4	[illegible]
100.0	54642.	-67.6			80.[illegible]	11.[illegible]
80.0	57074.	-65.3			75.0	19.4
70.0	61763.	-61.7			99.7	11.4
60.0	64911.	-59.6			92.5	22.4
50.0	68677.	-57.7			97.5	25.9
40.0	73325.	-54.2				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.


END
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